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Bulletin 130-85
May 1988

HYDROLOGIC DATA 1985

Volume II: Northeastern California



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ON THE COVER Located on the Sacramento River about 12 miles north of Redding, Shasta Dam provides irrigation water and electric power. Lake Shasta, with a capacity of 4,500,000 acre/feet, extends 35 miles from the dam up the Sacramento, Pit, and McCloud rivers.

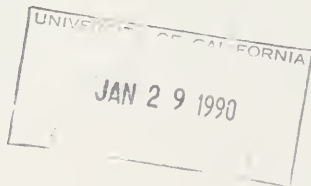
Department of
Water Resources

Bulletin 130-85

HYDROLOGIC DATA 1985

**Volume II:
Northeastern California**

May 1988



Gordon K. Van Vleck
Secretary for Resources
The Resources
Agency

George Deukmejian
Governor
State of
California

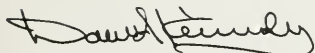
David N. Kennedy
Director
Department of
Water Resources

FOREWORD

Department of Water Resources' Bulletin 130 series, which presents hydrologic data for California, was published annually from 1963 to 1975. The series was discontinued with the advent of the storage and retrieval of hydrologic data by electronic data processing methods. However, continued interest in the series prompts resumption of publication.

The first in the resumed series is Bulletin 130-85. It contains hydrologic data for the 1985 water year (October 1, 1984 through September 30, 1985). The Bulletin is published in five volumes, each of which reports on one of the five areas of the State delineated on the facing map. This volume covers Northeastern California.

The data collection program of the Department of Water Resources supplements similar activities by other agencies to obtain the information required for effective water resources planning, design and operation of water facilities, and for control and management of the State's water resources.

A handwritten signature in black ink, appearing to read "David Kennedy", with a stylized, flowing script.

David N. Kennedy, Director
Department of Water Resources

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This bulletin was prepared under the supervision of

Edwin A. Ritchie Chief, Water Resources Data Section

by

Andrew P. George Associate Engineer, Water Resources
Harley R. Woodworth Associate Engineer, Water Resources
Harold B. Knight Water Resources Engineering Associate
Gayle Dowd Water Resources Technician II
Matthew B. Winston Water Resources Technician II
Rhonda L. Payne Office Technician
Jarrod Fong Student Assistant

Assistance in preparation of this bulletin was provided by the

NORTHERN AND CENTRAL DISTRICTS:

NORTHERN DISTRICT

Wayne Gentry District Chief
Philip Lorens Chief, Water Management Branch (Retired)
Robert Steel Chief, Water Quality and Biology Section
Donald Slebodnick Chief, Watermaster Service and Hydrology Section
Patricia Huckabay Associate Engineer, Water Resources
Virgil Buechler Water Resources Engineering Associate
Leroy Gibson Water Resources Engineering Associate
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ORGANIZATION (CONTINUED)

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CENTRAL DISTRICT

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Don Schuder	Water Resources Technician I
Rudy Solorio	Water Resources Technician I
Bobbie Daugherty	Junior Engineering Technician
Ray Lee	Junior Engineering Technician
Mary Smith	Programmer I

* Andrew S. Lee was chief until March 1988

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City of Anderson
City of Colusa
City of Dunsmuir

City of Lakeport
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Clear Lake Community Services District
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Glenn-Colusa Irrigation District
Lake County
McCloud Community Services District
M and T Incorporated
National Park Service
National Weather Service

Orland Unit Water Users Association
Pacific Gas and Electric Company
Pacific Power
Paradise Fire Department
Police Department, City of Williams
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South Sutter Water District
Sutter County
U. S. Army Corps of Engineers
U. S. Bureau of Reclamation
U. S. Fish and Wildlife Service
U. S. Forest Service
U. S. Soil Conservation Service
Western Water District
Yolo County
Yuba County

INTRODUCTION

Bulletin 130-85 presents data on the quantity and quality of California's water resources for the water year October 1, 1984 through September 30, 1985. These data were collected by the Department of Water Resources and other organizations cooperating with the Department. The data are published in five volumes (for areal coverage of volumes see page ii). This volume encompasses Northeastern California. Each volume contains data presented in five appendixes as follows:

Appendix	Subject
A	Precipitation Measurements
B	Surface Water Measurements
C	Surface Water Quality
D	Ground Water Measurements
E	Ground Water Quality

Inquiries regarding the data in this publication should be directed to the offices of the Department of Water Resources listed inside the back cover. The Department's files also contain some data currently not being published, which are also available from these offices.

Additional information about the availability of hydrologic data for California will be found in Department of Water Resources Bulletin 230 series "Index to Sources of Hydrologic Data." This reference series presents an inventory of historic hydrologic data on file with the Department. The most recent issue is Bulletin 230-81. A new edition is in preparation.

Station Location and Identification

The locations of precipitation, surface water measurement, and surface water quality data stations are shown on figures included with the respective appendix. Because there are so many individual wells, plotting these on a map in this volume is impractical. Instead, figures are presented in the respective appendix which delineate the areas for which data are listed.

The principal identifiers for locating hydrologic data stations are (1) station name, (2) station number, (3) latitude and longitude, (4) township, range and section (T,R and S) and (5) county. All are used in this publication, but vary with the type of data and common usage. For example, in ground water the township, range and section serve as the station name and number.

A sixth identifier, an areal one, is employed in this publication. Called the "Areal Designation Code," it is the signature for the Department's Areal Designation System, which was developed to relate all water resources data to areal location. The Areal Designation System and Code are described in the following section.

Detailed explanations of the station names and station numbers used for each type of data appear with the appendix in which the data appear.

Latitude is the angular measurement from the equator, north or south, to a point of interest on the earth's surface. Longitude is the angular measurement from the prime meridian (zero point) at

Greenwich, England, east or west, to a point of interest on the earth's surface. Latitude and longitude are given in degrees, minutes and seconds. A difference of one second of latitude represents about 100 feet on the ground. In California, a difference of one second of longitude represents about 85 feet on the ground.

Areal Designation Code

The areal designation code (called simply the "areal code") is an alphanumeric which designates a specific hydrologic area in the State.

Areal designation defines hydrologic boundaries throughout California. Under this system, the State is divided into four geographic levels based on topography, hydrology, geology and occasionally, institutional considerations. These are designated, in decreasing size, hydrologic basin (HB), hydrologic unit (HU), hydrologic area (HA) and hydrologic subarea (HSA). The first level, the hydrologic basin, is the land area defined by the highest surrounding ridges such that each separate land area is easily identified as independent of the others. There are 12 hydrologic basins in California and each is identified by a letter (see Figure 1). Each of the hydrologic basins is divided into hydrologic units which encompass a major watershed, two or more small contiguous watersheds having similar characteristics, or a closed drainage area. The third level of subdivision is the hydrologic area and the fourth and smallest breakdown is the hydrologic subarea. The latter usually is a single ground water basin, a definable portion of a larger ground water basin, a tributary area of a stream system, or a definable portion of a large stream tributary.

The code used to identify each subdivision consists of five characters; a letter for the hydrologic basin; two numerics for the hydrologic unit; a letter for the hydrologic area; and a single numeric for the hydrologic subarea; for example, A03.A1 designates the Lake Berryessa Subarea in this volume.

Because several stations may be located in a given hydrologic subarea, the areal code facilitates locating and comparing nearby stations, be they precipitation, streamflow, water quality or ground water stations. The areal code is used as an identifier for all stations in this report. The Water Data Information System (WDIS), a computerized data system of the Department of Water Resources, can retrieve all data types by areal code.

Areal codes and boundaries for this volume appear on Figure 2. A map showing all areal codes and boundaries in California as well as a list of all 1,309 subdivisions and their names is available on request.

Agency Code

Reference is made in various tables in this publication to code numbers used to identify agencies collecting data, operating stations, or performing laboratory analysis (Lab). The agencies or laboratories may be identified by matching the tabulated code number with one of the code numbers listed at the beginning of the respective appendix. A complete cross index of agencies and code numbers is available on request.

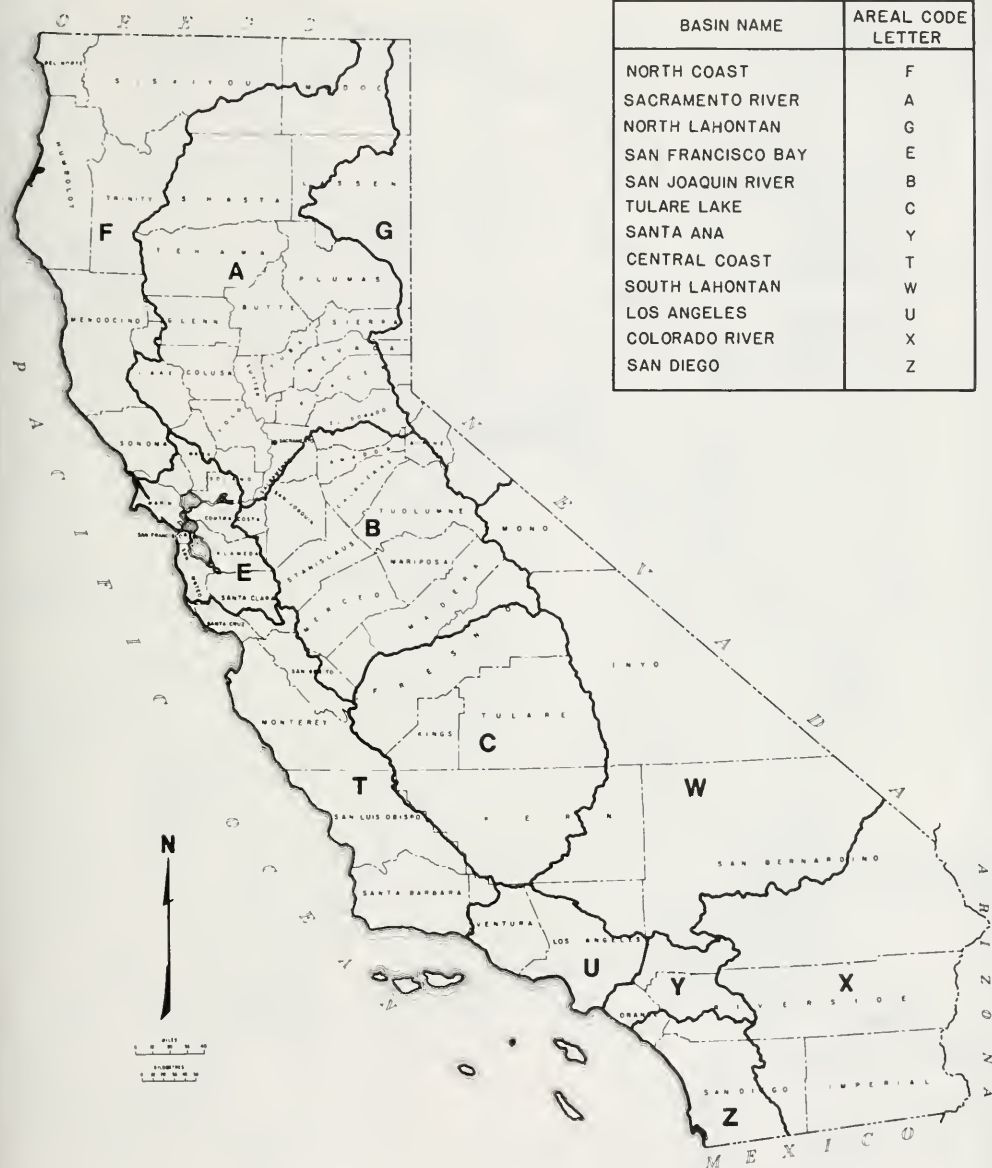


Figure 1. HYDROLOGIC BASINS OF CALIFORNIA

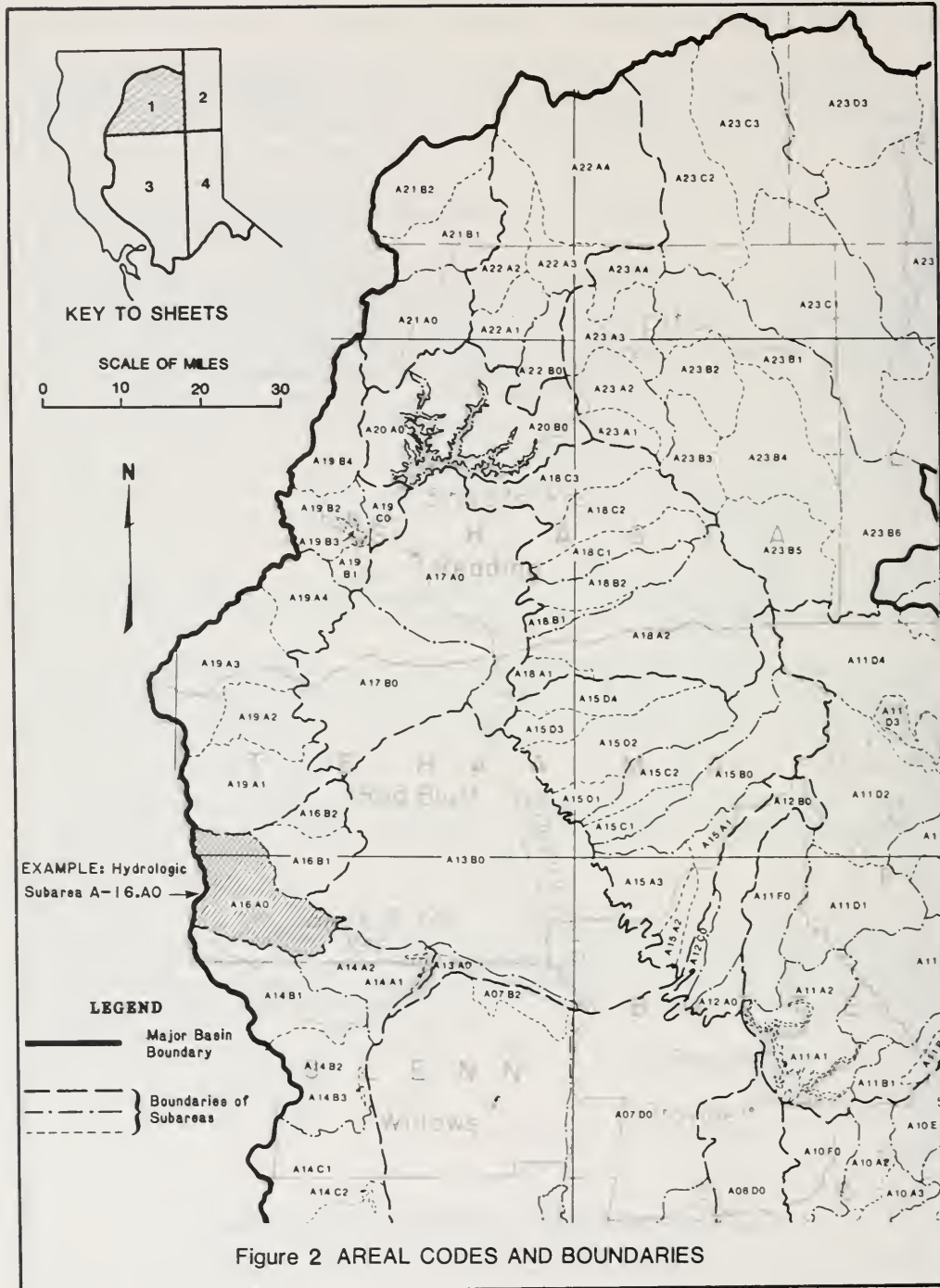


Figure 2 AREAL CODES AND BOUNDARIES

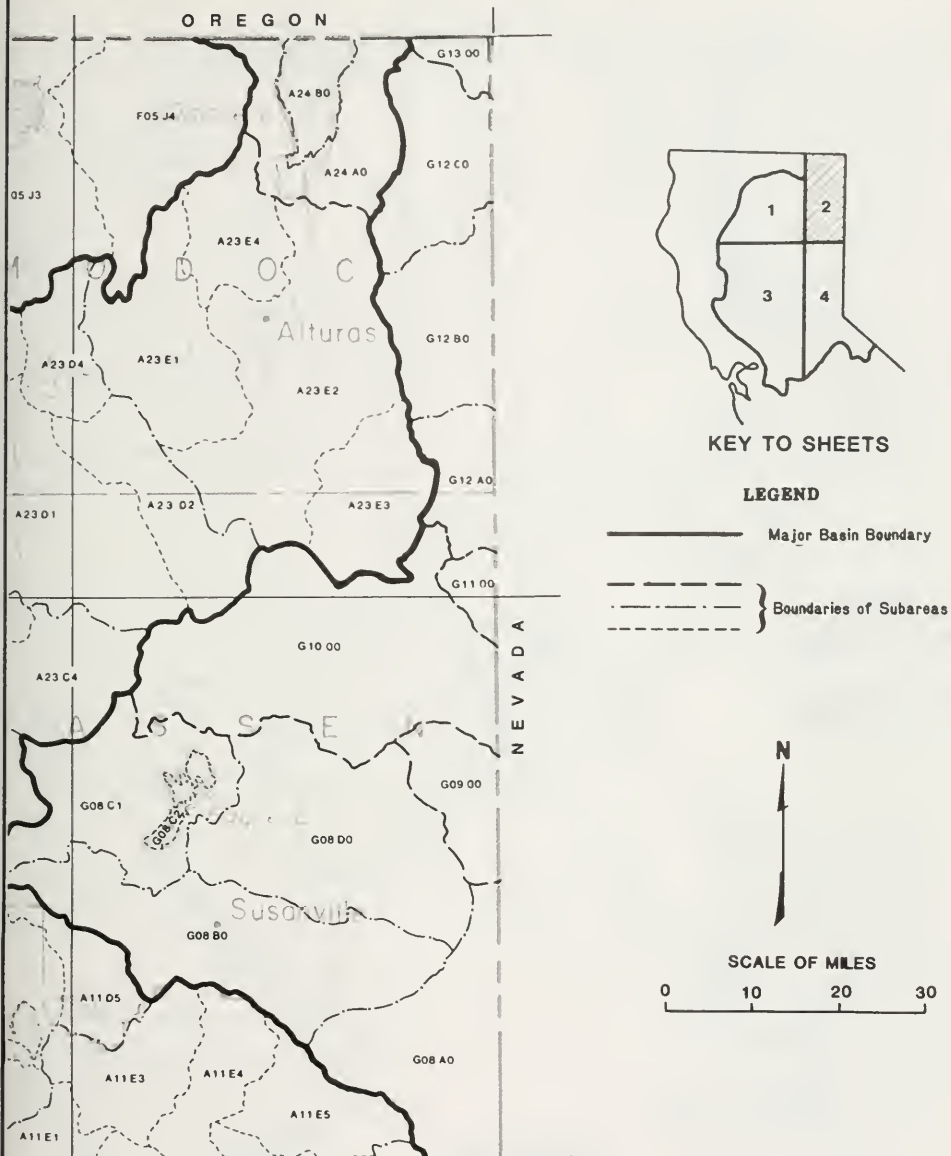
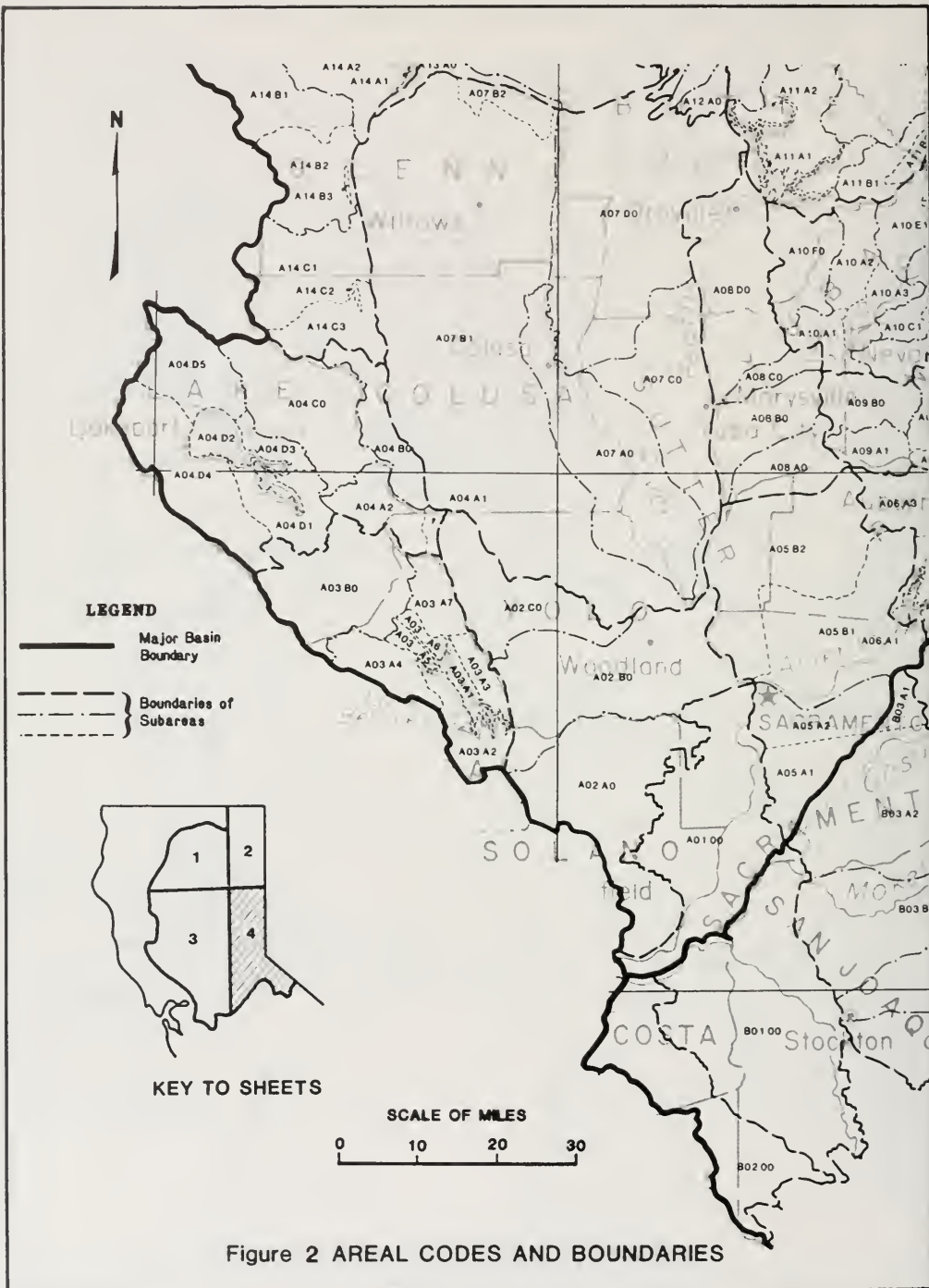
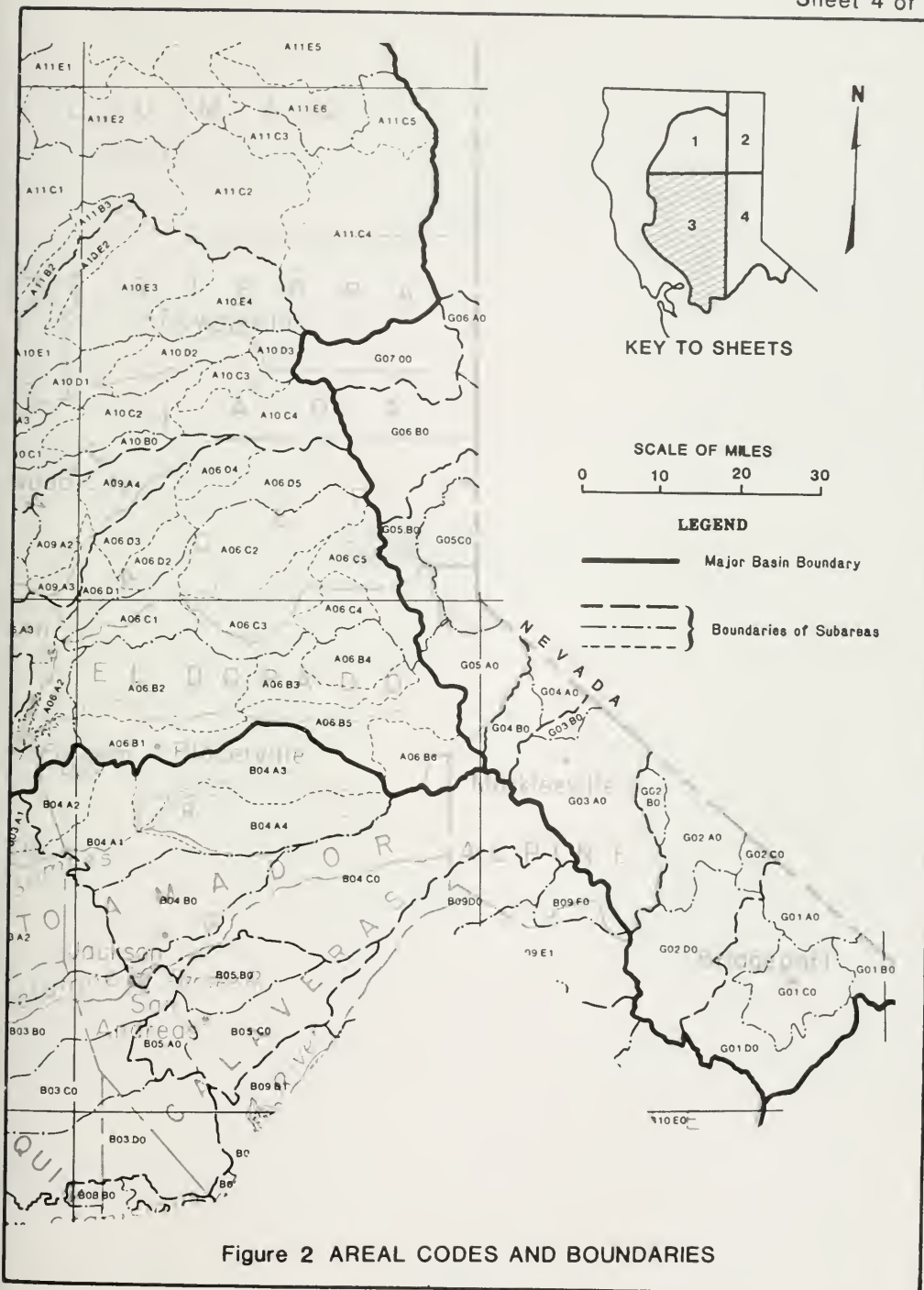


Figure 2 AREAL CODES AND BOUNDARIES





APPENDIX A

CLIMATOLOGICAL DATA

APPENDIX A

CLIMATOLOGICAL DATA

Appendix A presents precipitation data for certain climate stations in Northeastern California for the water year October 1, 1984 through September 30, 1985. Locations of the stations are shown on Figure 3, following.

The first character of the nine character climatological station number indicates the major basin in which the station is located. This character is one of the areal code letters shown on Figure 1. The next two characters designate a hydrologic unit in the major basin. The fourth through the ninth characters denote the sequence of the stations under an alphanumeric system developed by the National Weather Service. (The fourth through seventh characters are the same as the four-digit station numbers used by the National Weather Service.)

Climatological stations are often named after the nearest post office and the distance and direction to the station. Distance is in miles, and the direction is represented in one of 16 compass points. For example, Alturas 7 ESE denotes a station located 7 miles east southeast of the post office at Alturas. The responsibility for selecting the station name generally rests with the agency or individual who establishes the station.

The space for station names is restricted to a combination of 25 letters and/or numerals; therefore, some abbreviations are necessary. Pertinent abbreviations are:

ADR	- Analog Digital Recorder (Automatic recording device)
AP	- Airport
COPCO	- California-Oregon Power Co.
FFS	- Forestry Fire Station
RAD	- Radiation
SOD	- Sierra Ordnance Depot
SHP	- State Historical Park
TP	- Treatment Plant
USCE	- U. S. Corps of Engineers
WB	- Weather Bureau
WBO	- Weather Bureau Office

The Department gives latitude and longitude to the nearest second when the value is known, but the National Weather Service lists stations by degree and minute only. A zero value or a blank space for "seconds" in the latitude and longitude columns means that these values have been obtained from the National Weather Service, and the location has not been verified in the field.

Elevations are given in feet from USGS mean sea level datum, and are usually obtained by interpolation between contours of USGS topographic maps.

Precipitation values are shown to the nearest one-hundredth of an inch (0.01"). (Where digital recording rain gages that only record to the nearest tenth of an inch are used, a zero is shown in the second decimal place.)

The following notations are used to qualify the values:

- No record or incomplete record
- T Trace, an amount too small to measure

LEGEND

TYPE of DATA

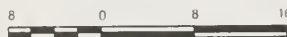
- ● ○ PRECIPITATION ONLY
- ⊙ PRECIPITATION, STORAGE
- ◊ ◆ ◊ PRECIPITATION and TEMPERATURE
- ◊ ◆ ◊ PRECIPITATION, TEMPERATURE and EVAPORATION

TYPE of GAGE

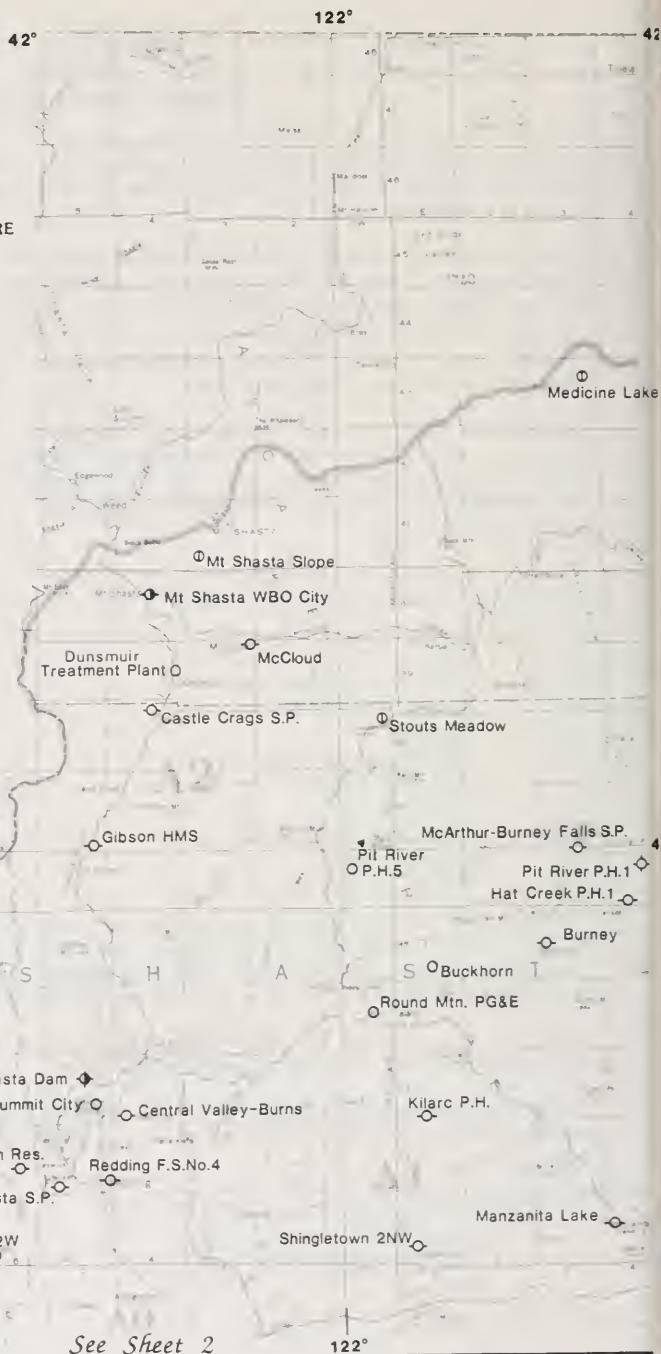
- NON-RECORDING
 - RECORDING
 - ◊ BOTH TYPES
- MAJOR BASIN and TRIBUTARY AREA
- MAJOR BASIN BOUNDARY
- BOUNDARY of TRIBUTARY AREA



KEY TO SHEETS



Scale in Miles



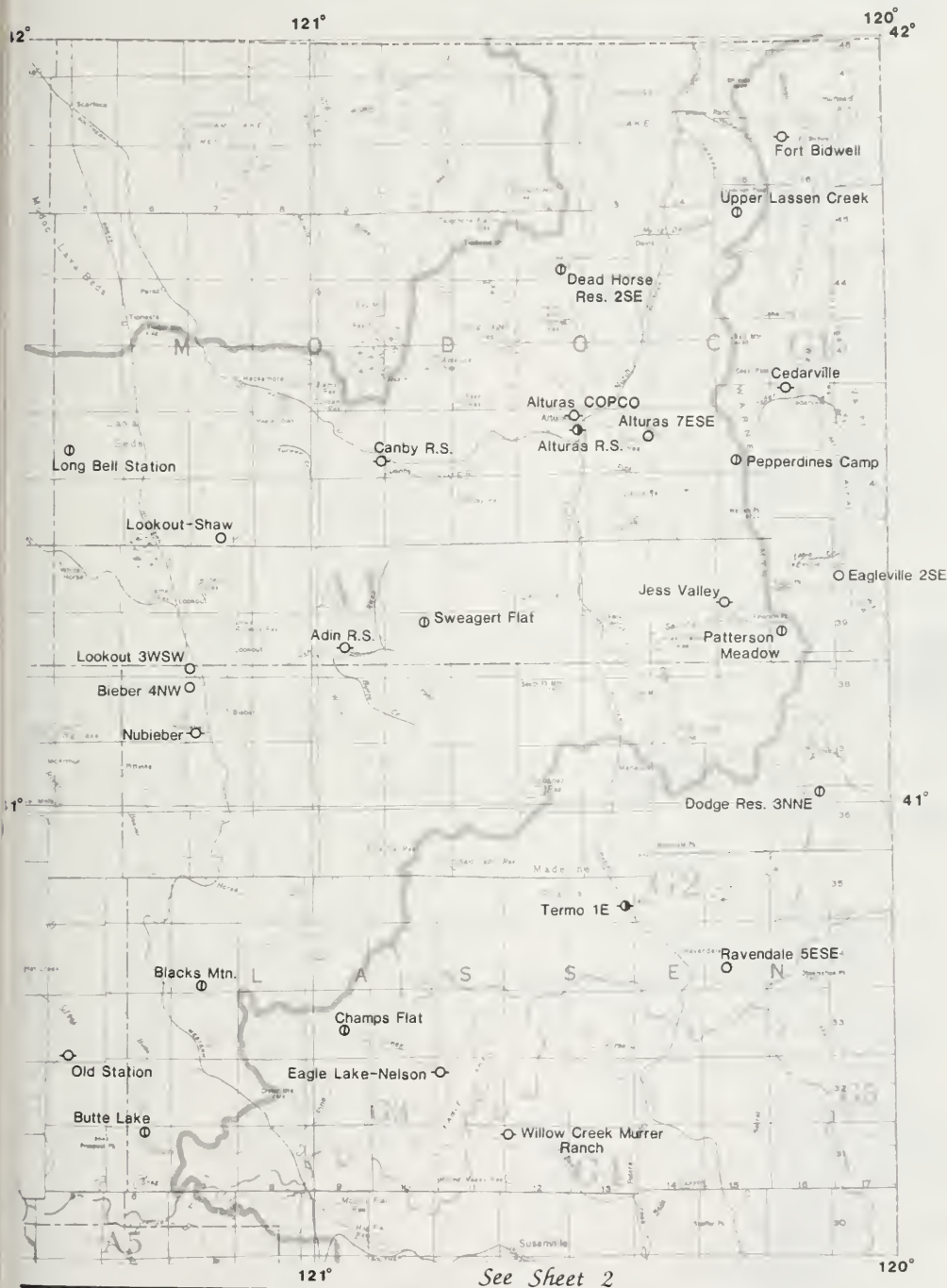
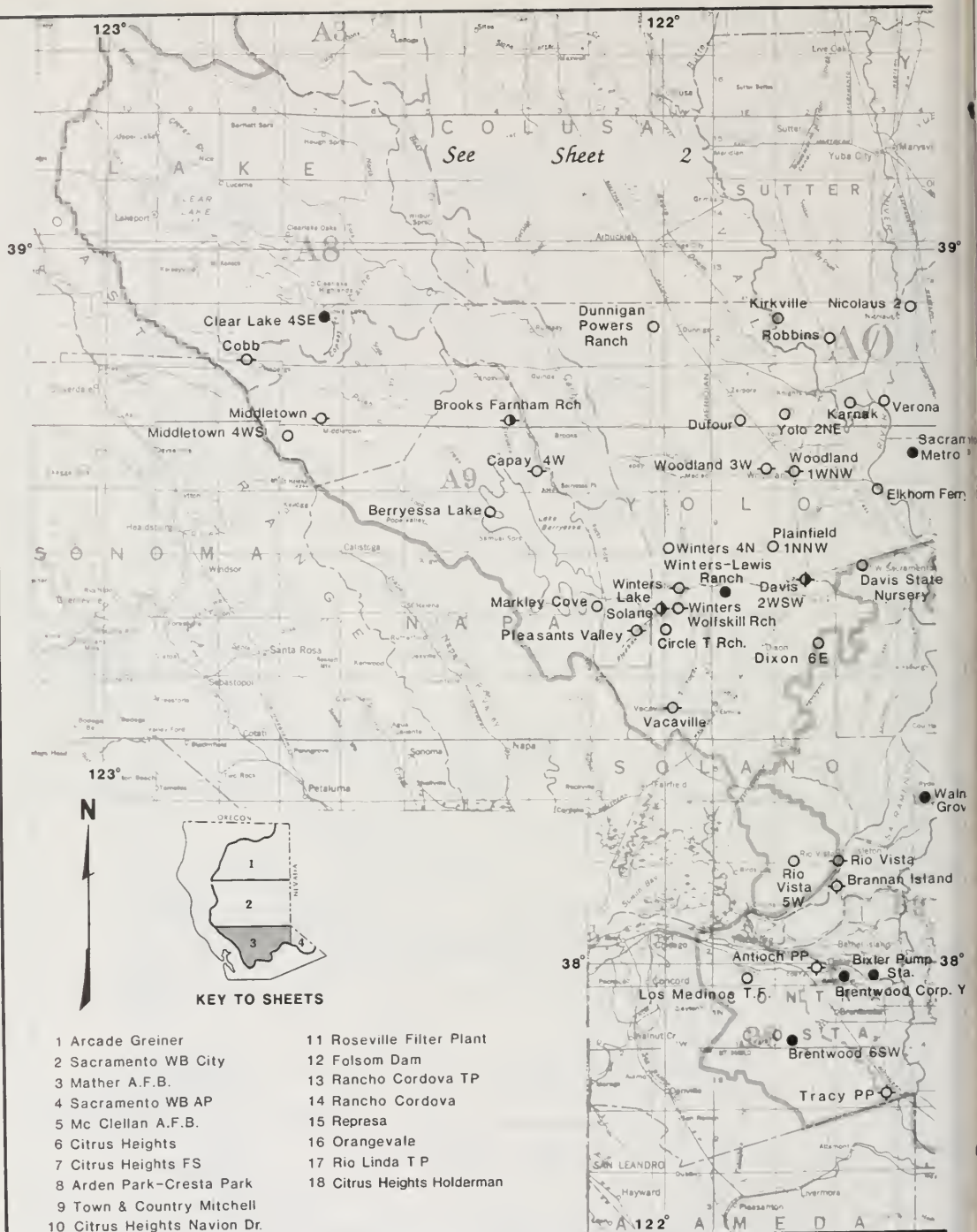


Figure 3. LOCATION OF CLIMATOLOGICAL STATIONS





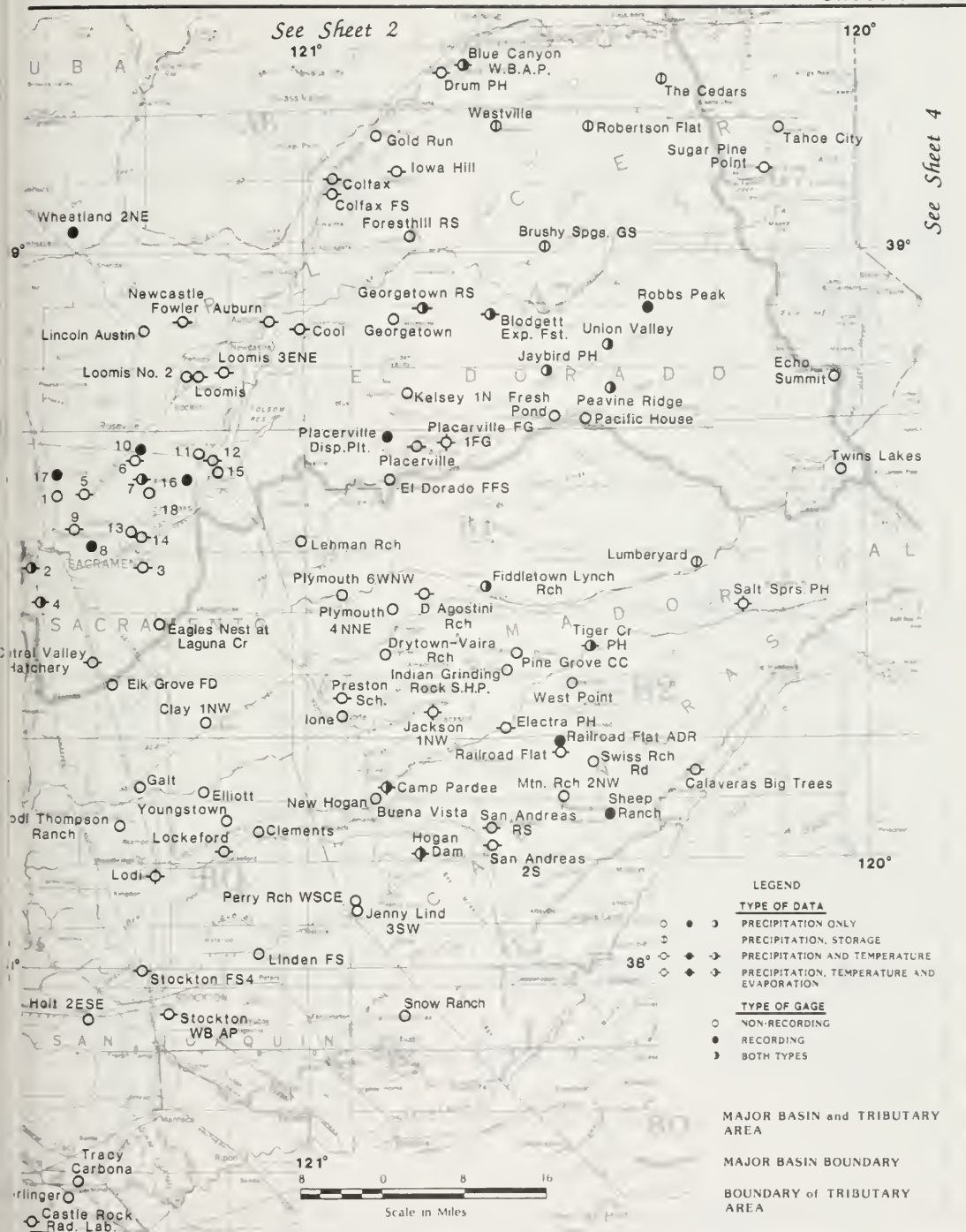


Figure 3. LOCATION OF CLIMATOLOGICAL STATIONS

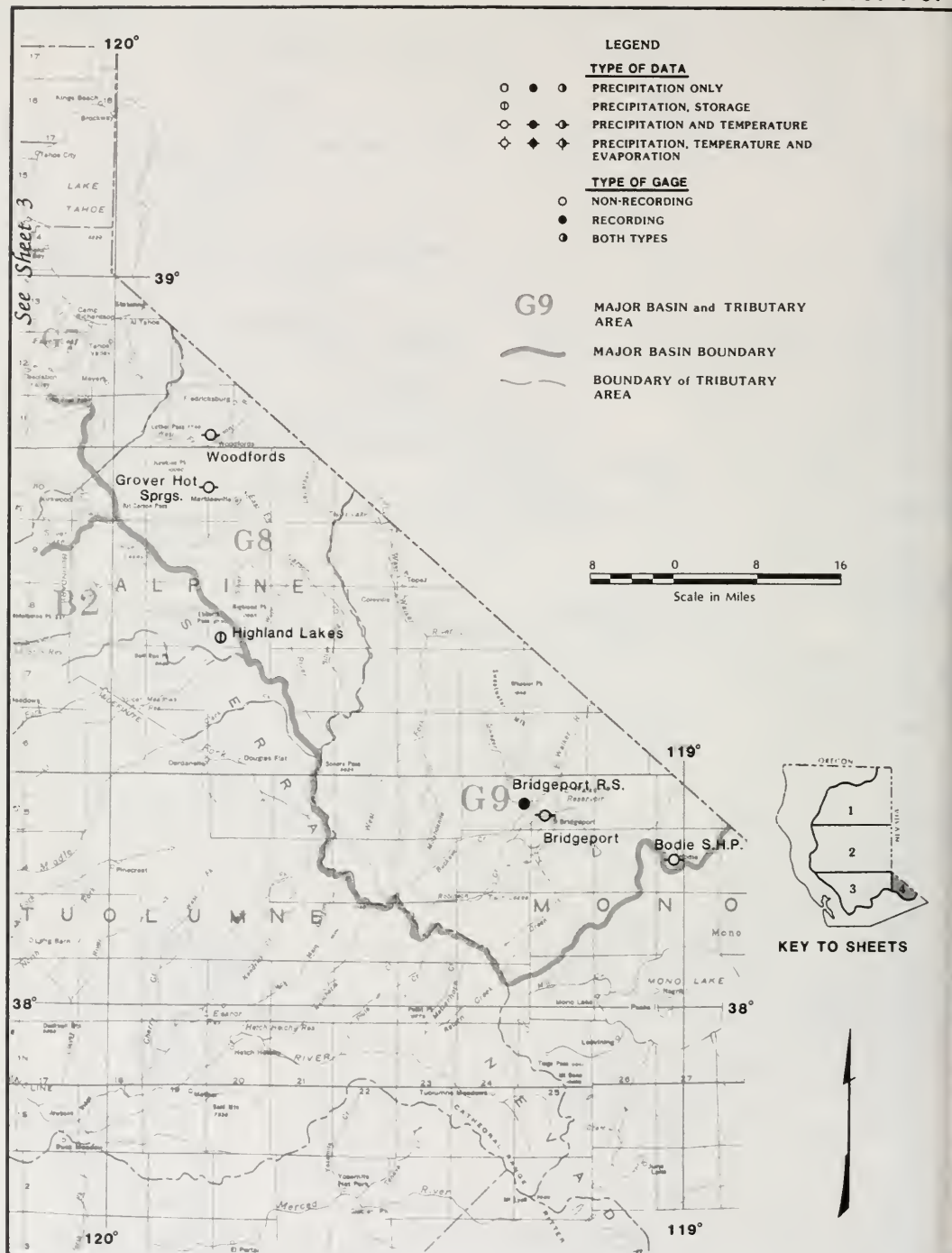


Figure 3. LOCATION OF CLIMATOLOGICAL STATIONS

TABLE A-1
MONTHLY PRECIPITATION
NORTHEASTERN CALIFORNIA
Volume II
Water Year 1985

AREAL CODE	STATION NUMBER	LAT	LONG	ELEVY	STATION NAME	TOTAL	PRECIPITATION IN INCHES											
							1984						1985					
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
A23D1	A10002900	41 12	120 57	4,193	Adin Ranger Station	13.16	1.87	3.79	.56	.44	.62	1.19	.00	1.11	.03	.39	.05	2.89
A1A81	A30009000	39 39	122 83	4,550	Alder Springs	29.50	3.20	11.40	1.90	.50	3.30	4.90	1.00	.50	.50	.00	.30	2.00
A23E2	A10015600	41 30	120 31	4,400	Alturas COPCO	11.28	1.19	3.50	.52	.60	.60	.82	.35	1.03	.19	.11	.12	2.25
A23E2	A10015900	41 30	120 24	4,900	Alturas F. ESE	13.15	2.24	2.89	.70	.60	.89	1.08	.44	.85	.38	.21	.05	2.82
A23E2	A10016100	41 29	120 32	4,365	Alturas Ranger Station	10.70	1.46	2.80	.46	.52	.87	.78	.38	.96	.30	.05	.04	2.12
A17A0	A00020040	40 26	122 17	430	Anderson Fire Station #2	22.82	3.45	8.57	2.35	1.09	3.19	3.19	.22	.13	.22	.00	.19	2.02
A17B2	A00020110	40 27	122 27	850	Anderson F. NW	31.41	2.93	11.48	2.38	1.20	1.97	4.07	.56	1.45	2.17	.01	.25	2.94
A17A0	A00020130	40 28	122 16	800	Anderson Sewage TP	26.53	3.49	9.40	2.85	1.10	1.83	3.64	.16	.00	.53	.04	.07	3.42
B0200	B80023200	37 59	121 43	60	Antioch Plant Dam	10.20	1.75	3.82	.85	.44	.84	1.90	.22	T	.22	.00	.00	1.68
A0100	A00024934	38 38	123 23	70	Arcade Greiner	17.46	2.00	6.31	1.97	.91	1.98	2.80	.19	.00	.18	T	.04	1.08
A0581	A00025534	38 35	121 22	67	Arden Park Cresta Park	15.39	1.97	5.49	1.81	.69	1.68	2.75	.20	.00	.20	.00	.00	.30
A06A3	A70038300	38 53	121 04	1,292	Auburn	26.89	3.18	9.02	2.35	.80	3.14	5.83	.13	.00	.29	.02	.19	1.94
A1070	A60048100	39 23	121 24	750	Bangor Fire Station	23.42	3.44	7.53	2.47	1.36	2.90	4.54	.12	T	T	.05	.15	1.67
A054A	A60056800	39 08	120 57	1,950	Bear River Head Dam	12.42	3.96	15.49	2.44	2.31	5.37	8.96	.55	.00	.87	.00	.19	2.68
A03A2	A90070050	38 33	123 13	460	Berryessa Lake	22.13	1.62	7.12	2.92	1.01	2.49	5.94	.07	.00	.05	.00	.00	.91
A2301	A10073108	41 09	121 11	4,190	Bieber N. W.	17.83	2.14	6.64	.62	.68	2.00	1.78	.00	.63	.00	.30	.05	2.99
B0100	B90093250	37 56	121 37	4,190	Bikler Pump Station	10.58	1.52	3.91	1.22	.54	.84	2.06	.19	.00	.30	.00	.00	.00
A1340	A30084011	39 48	122 19	425	Black Butte Dam	16.52	1.42	6.59	2.11	.74	.42	3.81	.61	.00	.00	.02	.11	1.09
A06C3	A70088300	38 54	120 40	4,414	Blodgett Exp Forest	47.49	6.35	16.03	3.60	1.70	5.72	10.14	1.05	.00	.00	.00	.50	2.40
A06D4	A70089700	39 16	120 42	5,280	Blue Canyon WB Airport	49.36	5.44	17.06	3.58	2.05	6.50	10.06	1.22	.06	.46	.05	.34	2.54
G06B0	G70093100	39 23	120 05	5,575	Boca	19.90	1.68	5.93	.80	.51	2.15	3.88	.15	.00	.88	2.26	.30	1.76
B0100	G00094300	38 13	119 01	8,370	Bodie S.H.P.	10.55	.57	2.09	.84	.66	.69	2.41	.22	T	.00	1.38	T	1.69
A10C1	A60101800	39 25	121 39	5,327	Bowman Dam	51.78	6.20	19.00	3.02	1.20	6.42	10.45	.99	.20	.10	.20	.50	2.83
B0100	B90105950	37 55	121 41	95	Brentwood Corporation Yd	11.61	1.54	4.06	1.32	.56	.96	2.51	.22	.00	.32	.00	.00	.12
B0100	B90104300	38 06	121 41	35	Brannan Island	14.89	1.72	4.48	1.52	1.18	1.58	3.05	.44	.01	.28	.10	.00	.13
B0200	B80106000	37 53	121 46	325	Brentwood GSW	12.24	1.32	3.84	1.08	1.19	2.06	2.14	.36	.00	.25	.00	.00	.00
G01C0	G90107203	38 15	119 13	6,470	Bridgeport	10.04	.15	1.64	.61	.51	1.10	2.11	.00	.00	.45	1.17	.00	2.30
G01C0	G90107600	38 16	119 17	6,560	Bridgeport Ranger Station	14.78	.36	1.93	.43	.58	.50	1.15	.10	.00	.30	.50	.00	2.20
A02C0	A80111200	38 45	122 09	294	Brooks Farms Ranch	20.32	1.30	6.37	1.85	.88	2.58	2.81	.00	.00	.87	1.56	.00	2.50
A11C1	A50113000	39 41	121 20	3,560	Brush Creek Ranger Station	---	5.47	---	---	---	---	---	---	---	---	.40	---	---
A23A2	A10114900	40 52	121 51	3,771	Buckhorn	50.12	5.47	19.96	3.50	.97	3.86	7.30	.62	1.86	.60	.16	.12	5.70
A11D1	A50115900	39 54	121 19	1,760	Bucks Creek Power House	50.65	4.38	19.52	4.99	2.07	3.98	9.77	1.00	.81	.00	.09	.05	3.99
B0100	B90117100	38 17	120 54	285	Buena Vista	18.32	2.19	5.65	1.76	.88	1.83	4.70	.11	.00	.26	.00	.08	.86
A23B2	A10121400	40 53	120 40	3,127	Burney	23.29	2.83	8.59	1.36	.54	1.38	2.87	.16	1.26	.41	.55	.06	3.28
B09D0	B00127700	38 17	120 19	4,696	Calaveras Big Trees	41.40	4.61	12.59	2.89	2.15	5.29	9.24	1.09	.00	.90	.33	.15	2.16
B0380	B00124800	38 15	120 50	658	Camp Pardee	17.91	2.32	5.00	1.86	1.15	1.74	4.37	.40	.00	.28	.00	.08	.71
A23E1	A10147600	41 27	120 52	4,312	Candy Ranger Station	14.08	1.63	4.30	.92	.32	.90	1.40	.20	.86	.19	.07	.16	3.13
A1105	A50149700	40 10	121 05	4,555	Canyon Dam	29.02	2.90	11.02	1.70	.90	3.70	5.50	.50	.30	.00	.10	.00	.40
A02C0	A80150000	38 42	122 07	300	Capay NW	18.41	1.42	6.81	1.85	.95	3.42	3.25	.01	.00	.04	.03	.14	.40
A11C2	A50152000	40 05	121 08	2,986	Caribou Power House	32.23	2.69	12.52	2.27	1.04	4.27	5.58	.22	.22	.00	.80	.02	2.60
A21B1	A00157651	41 08	122 19	2,026	Castle Crags State Park	49.82	3.18	26.81	4.50	.82	3.88	5.58	.27	.59	.30	.97	.29	2.63
B0100	B80158300	38 18	121 43	1,376	Castle Rock RAD Lab	9.92	1.34	2.60	1.25	1.54	.64	1.88	.38	.01	.10	.00	.00	.10
G12B0	G10161400	41 31	120 10	4,670	Cedarville	10.24	1.63	3.40	.73	.28	.98	.87	.36	.62	.08	.05	.03	1.21
A17A0	A00163401	40 40	122 21	765	Central Valley-Burns	42.84	2.64	16.06	2.77	1.18	4.12	4.91	.51	1.12	.83	.68	.23	6.83
A05A1	B00163501	38 25	121 22	38	Central Valley Hatchery	15.52	1.73	5.59	1.78	.65	1.64	2.66	.22	.00	.33	.00	.01	.91
A10A2	A00165300	39 29	121 13	2,560	Challenge Ranger Station	53.27	4.04	16.04	4.97	2.01	13.25	9.66	.65	.00	.00	.01	.01	2.53
A0700	A50169300	39 38	121 31	1,355	Cherokee	33.23	3.71	11.26	4.01	1.74	4.02	5.71	.50	.11	.00	.00	.15	2.02
A1103	A50170000	40 18	121 13	4,525	Chester	21.64	2.40	8.46	.92	.79	2.16	3.37	.40	.33	.04	.22	.12	2.43
A13B0	A00171520	39 46	121 47	283	Chico 3 & NE	21.71	2.68	8.86	2.07	.82	1.21	3.56	.15	.00	.00	.00	.08	2.28
A0700	A00171550	39 42	121 49	185	Chico University Farm	21.71	2.68	8.86	2.07	.82	1.21	3.56	.15	.00	.00	.00	.08	2.28
A02A0	A00176700	38 28	121 59	205	Circle T Ranch	17.76	1.23	7.27	1.24	1.57	2.61	3.71	.00	.00	.02	.00	.00	.11
A05B1	A00177300	38 42	121 17	138	Citrus Heights	18.50	2.44	6.60	1.59	1.05	2.11	3.56	.13	.00	.00	.00	.00	1.02
A05B1	A00177301	38 42	121 18	140	Citrus Heights Navion Drive	18.75	1.97	6.74	1.94	.94	1.97	3.86	.14	.00	.23	.00	.00	.96
A05B1	A00177334	38 40	121 17	160	Citrus Heights Fire Station	19.35	3.31	6.11	2.01	.86	2.35	3.46	.26	.00	.19	.00	.10	.70
A05B1	A00177336	38 40	121 16	208	Citrus Heights Holderness	16.92	1.82	6.23	1.67	.84	2.04	3.36	.08	.00	.20	.00	.10	.58
A07B1	A00178500	39 32	122 23	410	Clarks Valley-Mudd	15.17	.85	6.40	2.07	.39	.57	3.13	.24	.00	.00	.00	.00	1.52
B03A2	B00178550	38 21	121 10	95	Clay NW	17.77	2.24	5.90	1.79	.78	1.59	2.87	.00	.00	.39	.00	.00	2.21
A04D1	A60180400	38 54	122 36	1,199	Clear Lake & SE	17.76	2.00	9.25	2.71	.49	1.65	4.45	.13	.00	.00	.00	.00	1.80
B03B0	B00181300	38 12	121 06	120	Clements	17.86	2.17	5.90	1.12	.71	1.49	3.30	.04	.00	.28	.00	.00	1.85
A10E1	A50182950	39 39	121 10	3,405	Clippers Mills Oreleva	61.97	4.98	19.08	5.39	2.39	8.06	17.85	.15	.00	.00	.00	.17	2.90
A02D4	A00188000	38 49	122 43	2,520	Cobb	45.73	2.80	20.13	4.75	1.18	5.36	8.86	.33	.04	.03	.04	.03	2.18
A15A2	A00189100	39 56	121 43	3,180	Cohasset 1 NNE	41.00	4.58	14.26	3.08	2.00	4.76	6.56	.43	.03	.01	.06	.07	5.16
A17A0	A00190700	40 24	122 08	420	Coleman Fish Hatchery	27.00	3.15	7.07	2.57	.91	1.35	4.03	.20	3.10	.02	.07	2.06	1.97
A06D1	A70191200	39 05	120 57	2,418	Golfax	34.83	3.22	11.20	2.45	1.86	5.65	6.53	.44	.05	.40	.00	.17	2.86
A06D3	A70191201	39 05	120 56	2,350	Golfax Fire Station	36.30	3.26	12.16	2.29	1.38	5.21	8.12	.57	.04	.36	.00	.21	2.70
A10A3	A60191600	39 19	121 11	585	Colgate Power House	29.41	3.43	9.96	2.93	1.23	4.1							

TABLE A-1 (CONTINUED)

ARCEL CODE	STATION NUMBER	LAT	LONG	ELEV	STATION NAME	TOTAL	PRECIPITATION IN INCHES													
							1984			1985										
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
A1CF3	A66250000	39 33	120 49	2,895	Downville Ranger Station	50.20	4.80	18.40	3.40	1.70	6.90	10.80	.98	.30	.20	.12	.20	.44		
GC8AC	G6C250400	39 33	121 06	4,240	Doyle	9.86	1.03	2.65	.67	.31	2.33	2.14	.00	.07	.00	.00	.00	.66		
GB3AC	G6C250640	39 58	120 05	4,390	Doyle & SSE	13.79	1.66	1.69	.42	.65	3.04	2.43	.01	.00	.09	.09	.02	.19		
AY48A	A66251400	39 15	120 45	3,412	Drue Power House	45.67	4.82	15.44	3.41	1.90	6.59	8.28	.94	.01	.00	.02	.21	.55		
BC48C	B10251800	38 26	120 51	740	Drytown-Vaira Ranch	20.92	2.72	6.63	.197	.79	1.95	4.95	.14	.00	.81	.00	.05	1.25		
AT81	AC0254300	38 45	121 50	65	Dufour	14.86	1.68	5.97	1.50	.87	1.36	2.68	.40	.00	.00	.00	.00	.32		
AT82	AC0254500	38 53	121 59	104	Dunham Powers Ranch	16.27	1.39	7.18	1.57	.73	1.57	2.72	.08	.00	.03	.00	.03	1.57		
A2181	A20257400	41 12	122 16	2,574	Dunsmuir Treatment Plant	44.59	2.93	23.84	3.42	1.48	3.41	4.90	.14	.44	.33	.93	.35	2.42		
AT700C	AC0257601	39 38	121 47	155	Dunbar Fire Station	20.22	2.58	8.00	2.18	.75	1.15	2.72	.26	.00	.00	.00	.20	2.38		
GB00C	G30259502	40 39	120 46	5,121	Earle Lake-Wilson	12.62	1.16	4.21	.45	.49	2.26	1.16	.00	.09	.23	.06	.04	1.71		
AC5A1	AC0260634	38 29	121 15	100	Eagles Nest At Lupuna Creek	11.66	1.97	5.50	1.71	.09	.25	.86	.14	.00	.35	.00	.00	.79		
G12AC	G10259906	41 17	120 05	4,450	Evansville 2 SE	—	.95	3.23	.26	.42	.65	.65	.00	.00	.00	.00	.00	1.30		
A1102	A10260400	39 22	122 31	1,255	East Park Reservoir	15.90	.77	6.67	2.33	.39	1.30	3.53	.32	.00	.00	.00	.00	.52		
AC695	A10267610C	38 50	120 02	7,370	Echo Summit	38.51	4.94	10.75	2.29	2.12	3.62	8.46	1.11	.07	.33	.21	.25	3.46		
AC581	AT0272000	38 40	120 52	1,550	El Dorado F.F.S.	27.93	3.35	10.67	2.05	.97	4.10	5.56	.12	.00	.30	.10	.19	1.25		
BC48C	B20272800	38 19	120 40	715	Electra Power House	23.94	2.89	6.99	1.93	.64	3.08	5.97	.15	.00	.25	.00	.13	.94		
AC5A1	BC0274200	38 24	121 21	48	Elk Grove Fire Dept.	13.87	1.58	4.93	1.65	.58	1.48	2.20	.18	.00	.31	.00	.00	.96		
AC582	AC0274400	38 40	121 37	40	Elkhorn Ferry	14.78	1.41	5.42	1.41	1.15	1.58	3.02	.02	.00	.09	.00	.39	.29		
BC342	BC0276000	38 14	121 11	92	Elliott	17.14	2.30	6.18	2.69	.94	1.46	3.01	.14	.00	.34	.00	.00	.68		
A1181	ASC299400	39 35	121 15	2,965	Feather Falls	34.64	4.63	11.00	3.08	1.54	4.18	6.36	1.07	.15	.00	.00	.13	2.50		
BR448	B10303800	38 31	120 52	2,140	Fiddletown Lynch Ranch	27.50	3.20	9.30	1.90	1.40	3.40	6.30	.30	.00	.80	.00	.10	1.20		
AC004	AB0305600	38 58	122 52	1,377	Finley 1 SSE	22.99	3.05	9.12	2.23	.37	2.05	4.76	.07	.00	.02	.02	.05	1.15		
GB580	GC0307000	40 22	120 19	4,000	Fleming F & G	9.10	1.53	2.19	.37	.28	.96	2.34	.00	.00	.18	.05	.02	.78		
AC581	BC0311300	38 42	121 09	350	Folsom Dam	18.56	2.13	6.63	1.91	.91	2.27	3.50	.00	.00	.30	.00	.16	.75		
A11A2	AS0312700	39 31	121 16	2,900	Forbestown	—	.70	15.33	—	—	7.12	7.06	—	—	—	—	—	—		
AC6C1	AT0313400	40 01	120 49	3,190	Foresthill Ranger Station	38.32	4.39	12.28	2.53	1.77	4.29	9.32	.68	.00	.55	.00	.86	2.05		
G120C	G10315700	41 51	120 08	4,498	Fort Bidwell	16.09	2.99	4.03	1.33	.81	1.53	1.51	1.07	1.20	.05	.18	.07	1.72		
AC695	AT0325090	38 45	120 32	3,760	French Pond	42.40	5.61	13.90	2.66	2.29	6.18	8.26	.58	.03	.59	.00	.23	1.13		
AT81	AC0326702	39 35	122 27	610	Fruto 2	16.31	1.66	5.92	2.10	.30	.65	2.82	.27	.00	.00	.04	.00	.34		
BC342	BC0330100	38 15	121 18	47	Galt	14.79	2.11	5.99	1.18	.70	1.36	2.53	.10	.00	.36	.00	.00	.46		
AC582	AT0338100	38 54	120 50	2,720	Georgetown	52.99	1.59	10.20	4.00	8.73	16.94	9.10	1.36	1.17	.00	.00	.00	.00		
AC581	AT0338400	38 55	120 47	3,001	Georgetown Ranger Station	52.64	4.14	15.61	2.57	1.56	5.71	9.89	.54	.00	.81	.00	.49	1.72		
A21AC	A20340500	41 00	122 24	1,435	Gibson HMS	46.33	3.34	24.09	3.77	1.17	3.17	3.59	.74	.37	.95	.86	.22	2.65		
A1380	AC0346000	40 47	122 03	160	Glenn-Colusa Headgate	17.51	1.76	7.22	2.05	.69	.50	3.21	.47	.00	.00	.00	.00	1.61		
AC503	AT0349100	39 10	120 51	3,320	Gold Run	43.17	4.25	13.67	2.93	1.85	6.01	11.99	.73	.10	.43	.05	.18	2.78		
AC7A2	AS0357300	39 12	121 04	2,400	Grass Valley No. 2	39.86	4.92	11.58	2.95	1.52	6.25	8.97	.61	.70	.37	.02	.10	1.87		
A1103	AS0362100	40 08	120 56	3,560	Greenville Ranger Station	28.62	2.37	11.08	1.17	1.06	4.29	5.00	.14	.05	.03	.25	.01	2.37		
AT700	AC0364000	39 22	121 41	90	Gridley Butte #0	17.22	2.10	6.79	1.89	.76	1.35	2.53	.10	.00	.04	.20	.00	.60		
AT700	AC0364001	39 23	121 41	93	Gridley F & S	15.49	1.68	6.20	1.80	.60	1.05	2.43	.05	.00	.00	.00	.00	1.54		
GC14C	GB0367600	38 41	119 49	5,800	Griffin Hot Springs	20.90	2.59	5.04	1.94	.53	1.66	4.36	.09	.00	.23	.61	.07	2.78		
A13A3	A30379100	40 22	122 58	2,710	Harrison Gulch Ranger Station	31.54	1.74	17.31	2.77	.67	2.38	3.94	.38	.22	.47	.05	.29	.82		
A238A	A10382400	40 56	121 33	3,015	Hart Creek Power House #1	17.26	2.25	6.36	1.14	.51	.75	2.48	.05	.99	.43	.26	.09	2.35		
GC8A0	G6392200	40 09	120 06	4,083	Herlong S O D	5.74	1.07	1.16	.55	.15	.85	1.86	.00	.00	.00	.00	.00	.10		
A10A3	AC0380000	39 14	121 16	580	H.L. Englebright Dam	25.38	1.90	8.51	2.55	1.04	3.84	5.69	.14	.00	.08	.03	.18	1.42		
GC5AC	B20401800	38 09	120 49	554	Hogan Dam	18.97	2.68	5.46	1.85	1.04	1.85	5.08	.15	.00	.37	.00	.00	.89		
BC100	B90404100	37 55	121 23	113	Holt 2 SSE	9.53	1.13	3.05	1.17	.80	1.02	2.04	.00	.00	.22	.00	.00	.10		
GB00C	AC0407500	39 19	121 31	113	Honcut	15.37	2.09	5.58	1.43	.65	1.79	2.75	.12	.00	.00	.00	.00	.17	.79	
A104A	A30421900	40 30	122 34	1,090	Igo 2 W	36.30	2.50	16.06	2.68	1.25	3.15	4.49	.85	.92	.39	1.81	.31	3.89		
BC48C	B20424500	38 25	120 38	2,490	Indiana Grinding Rock Shp.	30.89	3.73	9.23	2.10	1.64	4.11	7.54	.29	.00	.52	.00	.12	.61		
BC342	BC0428300	38 20	120 56	284	Ione	17.93	1.84	6.30	1.68	.85	2.00	3.87	.02	.00	.30	.00	.00	1.67		
AC603	AT0428800	39 05	120 50	3,056	Jona Hill	31.38	4.04	11.42	2.05	1.36	3.24	6.36	.60	.04	.45	.00	.21	1.61		
BC048	B20432100	38 21	120 47	1,550	Township 1 NW	22.20	3.01	7.24	1.82	1.05	2.11	5.21	.14	.00	.45	.00	.10	1.07		
BC043	AT0434500	38 50	120 31	3,000	Jay Bird Power House	83.08	4.46	15.11	2.56	1.83	5.34	10.13	.78	.03	.33	.00	.08	2.24		
A11AC	AC0434600	40 20	122 12	355	Jelly	24.47	2.51	8.92	3.79	.99	1.32	4.03	.25	.90	.1	.00	.29	1.51		
BC300	BC0435200	38 04	120 54	235	Jenny Lind 35 W	15.56	2.64	4.80	1.96	1.10	1.77	3.56	.15	.00	.32	.00	.00	.07	.39	
A23E3	A10437400	41 15	120 22	5,290	Jess Valley	14.41	2.63	3.31	.77	.79	1.08	1.53	.69	.54	.19	.45	.03	2.39		
AT7AC	AC0449000	38 47	121 39	23	Karnak	14.12	1.62	5.59	1.34	.99	1.37	2.51	.01	.00	.06	.00	.06	.57		
AC682	AT0448400	38 49	120 49	2,000	Kelsey Inn	27.38	2.98	9.93	1.90	.23	3.81	5.66	.10	.00	.94	.00	.00	.134		
AC04A	AB0449101	39 00	122 50	1,345	Kelsoville 2N	20.12	1.96	8.46	1.99	.44	1.66	4.18	.08	.00	.00	.00	.07	1.28		
BC200	B80450800	37 40	121 25	172	Kerlinger	—	1.08	2.48	.61	.80	.00	—	—	—	—	—	—	—		
A180C	AC0454400	40 41	121 52	2,650	Kilare Power House	36.21	4.21	13.50	3.29	1.12	1.74	5.28	.55	1.49	.74	.05	.16	4.08		
AT7AC	AC0457400	38 54	121 48	35	Kirkville	14.93	1.50	5.26	1.63	.92	1.45	2.30	.14	.00	.04	.00	.03	1.56		
AC04A	AB0470102	39 02	122 15	1,315	Lakeport	—	.23	10.10	2.35	.67	—	5.12	.09	—	.00	.00	.00	1.18		
AC04A	AB0470200	39 03	122 58	1,475	Lakeport 3W	29.19	2.85	12.21	2.61	.60	3.41	6.63	.17	.00	.00	.00	.00	1.71		

TABLE A-1 (CONTINUED)

AREAL CODE	STATION NUMBER	LAT	LONG	ELEV	STATION NAME	TOTAL	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
AC5B1	AC0509701	38 50	121 08	130	Loomis No. 2	15.68	1.66	4.43	1.51	.89	1.91	3.42	.05	.00	.20	.00	.12	1.49
AC5B1	AC0509731	38 50	121 08	130	Loomis 3 NW	22.89	2.25	7.96	2.05	1.52	2.35	4.68	.05	.00	.00	.00	.15	1.52
BC200	B00513050	37 59	121 51	680	Los Medanos Tank Farm	10.99	1.36	4.00	1.63	.51	.94	2.62	.26	.02	.12	.00	.00	.19
A1380	AC0513400	40 06	122 56	255	Los Molinos SW	19.03	2.03	6.92	2.63	.90	.66	3.32	.32	.00	.00	.00	.12	2.78
AT700	AC0522300	39 42	121 53	145	M and T Ranch	20.71	2.46	7.09	2.40	.78	.85	3.51	.52	.00	.00	.00	.00	2.20
A18A2	AC0531100	40 32	121 34	5,850	Manzanita Lake	35.77	4.99	12.13	2.51	1.25	2.63	5.35	.56	1.21	.28	.03	.12	4.51
AC3A2	AC0535000	38 30	122 07	1,980	Martinez Cove	20.27	1.30	7.52	1.64	1.63	3.47	3.40	.00	.00	.00	.00	.00	.61
GC080	G70537831	39 20	120 47	5,800	Martia Creek Dam	15.00	2.00	5.10	.70	.70	1.00	3.20	.10	.00	.20	.40	.10	1.50
AC0C0	AC0538500	39 08	121 35	60	Marysville	15.45	2.44	5.24	1.48	.84	1.59	2.88	.15	.00	.00	.00	.00	.78
A05A2	AC0540300	38 34	121 18	90	Mather Air Force Base	15.09	1.98	4.89	1.29	.75	1.71	3.40	.18	.00	.00	.00	.00	.78
AC7B1	AC0594901	39 16	122 11	91	Maxwell	14.64	.87	7.14	1.65	.63	.63	2.43	.09	.00	.00	.00	.11	1.09
A23B1	A10543030	41 00	121 37	2,960	McArthur-Burney Falls SP	28.27	3.45	10.70	1.55	.68	2.10	3.19	.24	1.39	.59	.90	.16	3.32
AC5B1	AC0544700	38 39	121 23	70	McClellan Air Force Base	18.51	2.09	6.58	2.67	.74	2.70	3.05	.24	.00	.00	.00	.11	.79
A23D1	AC0544900	41 16	122 08	3,300	McCloud	35.51	2.56	18.68	2.18	.39	2.38	3.93	.18	.73	.50	.94	.30	3.24
AC030	AC0559000	38 44	122 37	1,122	Middleton	39.45	2.37	16.82	3.56	1.07	6.62	6.60	.16	.00	.00	.23	.62	1.90
AC0B0	AC0559900	38 44	122 40	1,785	Middleton & WS	54.55	3.31	22.11	5.26	1.59	8.40	9.41	.16	.00	.00	.23	.00	4.02
GC080	AC0562100	40 10	120 21	4,140	Milford	10.45	2.50	2.60	.58	.52	1.20	1.46	.00	.00	.00	.00	.00	.82
A18A2	AC0567900	40 21	121 36	4,910	Mineral	38.73	5.96	13.88	2.45	1.30	3.68	5.46	.52	.55	.13	.00	.10	5.60
A11C2	AC0575200	39 47	120 37	4,370	Mohawk Ranger Station	23.68	1.71	8.23	1.82	.46	3.52	5.72	.00	.11	.11	.93	.61	1.66
BC050	B20589205	38 16	120 34	2,200	Mountain Ranch 2 NW	30.58	4.06	9.30	1.82	0.07	3.72	7.33	.51	.00	.00	.00	.12	1.45
A21B2	AC0598500	41 19	122 19	3,540	Mount Shasta WBO City	—	—	—	—	—	1.36	1.90	.00	.00	.11	1.69	.24	1.34
AT070	AC0613000	39 33	121 47	120	Nelson Western Camp	—	1.99	6.97	.99	.65	1.06	—	.00	.00	.00	.00	.00	.00
AC0B0	AC0613600	39 15	121 00	2,520	Nevada City	38.79	4.54	12.74	2.91	1.31	5.59	8.27	.53	.11	.49	.05	.24	1.97
AC0A3	AC0615300	38 53	121 13	250	Newcastle Fowler	19.46	2.56	5.90	1.87	1.06	2.09	4.51	.10	.00	.15	.00	.00	1.19
BC0A0	B20616505	38 09	120 48	650	New Hogan	16.95	2.63	4.86	1.60	.81	2.10	4.01	.00	.00	.00	.00	.00	.49
AC0B2	AC0619400	38 55	121 32	43	Nicolaus 2	16.04	2.66	5.50	1.67	1.21	1.24	2.70	.11	.00	.00	.00	.00	.78
A14B2	A30621100	39 32	122 40	5,000	Norl Springs	32.70	1.70	15.00	3.20	.30	4.40	5.60	.10	.00	.00	.00	.10	1.20
AC0B0	AC0621600	39 48	121 54	190	Nord Fire Station	17.31	2.38	6.93	.48	.57	.86	3.15	.72	.00	.00	.00	.10	2.12
A10C2	AC0623200	39 22	120 53	3,280	North Bloofield	38.15	4.00	11.60	3.65	2.10	4.60	9.10	.10	.20	.00	.10	.10	1.80
A1D10	AC0627400	39 22	121 06	2,080	North San Juan	35.92	4.38	12.46	2.69	2.52	4.46	6.74	.68	.00	.00	.00	.15	1.84
A23D1	A10629700	41 06	121 11	4,150	Nubieber	16.61	2.35	5.53	.86	.27	.79	2.50	.05	.97	.09	.27	.13	2.80
A23B5	A10641500	40 40	121 25	4,380	Old Station	20.80	1.99	8.45	1.20	.51	1.83	3.18	.20	.45	.51	.12	.00	2.34
AC0B1	AC0648134	38 41	121 13	235	Orangevale	17.80	1.92	6.85	1.79	.93	2.32	3.20	.08	.00	.00	.00	.00	.48
AT070	AC0650500	39 37	122 19	312	Orland-French Ranch	15.93	1.09	6.46	2.11	.44	.54	2.94	1.15	.00	.00	.00	.00	1.15
AT070	AC0650600	39 45	122 12	254	Orland	17.56	1.57	7.61	2.38	.71	.41	3.48	.28	.00	.00	.00	.00	1.14
AC0B0	AC0652100	39 30	121 33	171	Oroville	22.86	2.40	9.06	1.90	1.24	1.97	3.13	.04	.00	.00	.00	.00	3.10
A11A2	AC0652700	39 31	121 28	845	Oroville Dam	23.55	3.35	7.92	2.26	1.53	2.16	3.75	.06	.00	.00	.00	.00	2.20
AT070	AC0652335	39 38	121 38	340	Oroville 11NNW Butte College	23.85	2.86	8.18	2.68	0.07	1.43	3.17	1.61	.00	.00	.00	.00	2.34
BC0A3	AT0659700	38 45	120 30	3,440	Pacific House	39.47	5.13	13.57	2.55	2.07	4.80	7.91	.46	.00	.00	.00	.00	1.80
AC0B0	AC0662000	39 26	121 32	156	Paierno	16.81	1.46	6.93	1.40	1.50	1.68	2.70	.00	.00	.00	.00	.00	.99
A12A0	AC0668000	39 46	121 38	1,780	Paradise	38.24	3.71	14.34	2.96	1.57	4.91	6.53	.44	.00	.00	.00	.10	3.00
A12A0	AC0668900	39 46	121 35	2,010	Paradise Fire Station #3	41.59	2.71	16.46	3.80	1.75	6.34	6.05	.10	.00	.00	.00	.10	4.20
A1380	AC0672600	39 53	122 32	755	Paskenta Ranger Station	—	1.67	7.89	1.98	—	—	3.84	.00	.45	.33	.00	.00	2.49
AC0B5	AT0677309	38 47	120 26	5,175	Peavine Ridge	40.81	6.79	12.21	2.50	2.11	3.99	7.93	1.30	.13	.51	.00	.81	2.53
BC0CC	BC0681915	38 08	120 55	315	Perry Ranch USCF	16.20	2.10	4.90	1.80	1.22	1.50	3.70	.10	.00	.30	.00	.10	.50
AT070	AC0684911	39 42	121 56	120	Phelan Parrott Ranch	17.94	2.22	6.70	2.47	.68	.24	3.07	.74	.00	.00	.00	.00	1.73
BC0A0	B1068900	38 33	120 38	2,350	Pine Grove Cons. Camp	30.97	3.84	9.53	1.99	1.77	3.37	8.01	.20	.00	.58	.00	.00	.41
A23C1	A1069400	40 00	121 30	2,890	Pit River Power House #1	—	2.03	6.39	1.09	.63	.68	2.08	.02	.00	.00	.00	.00	2.79
A23C2	A10694600	40 59	121 59	1,150	Pit River Power House #5	49.79	3.99	20.86	4.31	1.10	4.15	5.77	.44	.87	.31	.85	.00	6.02
AC0B1	AT0696000	38 43	120 47	1,890	Placerville	28.44	3.19	10.46	2.17	.95	3.41	6.13	.15	.00	.85	.00	.23	3.30
AC0B1	AT0696400	38 44	120 50	2,580	Placerville Disp. Plant	28.78	3.60	10.00	2.20	1.10	4.30	6.20	.00	.00	.00	.00	.00	1.64
AC0B1	AT0696200	38 44	120 44	2,545	Placerville IFC	29.97	3.26	12.58	1.89	.44	3.96	5.06	.28	.00	.00	.00	.16	1.97
AC0B0	AC0696000	38 35	121 48	65	Plainfield 1 NNW	12.96	1.31	4.71	1.12	1.04	1.24	2.97	.30	.00	.00	.00	.00	.18
AC0B0	AC0697700	38 28	122 02	256	Pleasant Valley	—	1.52	9.23	2.00	—	—	—	.00	.00	.00	.00	.00	.00
A11C2	AC0699800	38 45	120 41	510	Plumas Eureka Park	42.17	3.78	13.78	3.37	1.33	3.46	10.73	.65	.62	.37	.18	.04	3.86
BC0A1	B10700003	38 33	120 55	445	Plymouth 6 NW	20.98	2.52	7.88	1.60	.64	2.55	4.06	.03	.00	.32	.00	.15	1.23
BC0A4	B10700004	38 33	120 48	1,550	Plymouth 4 NNE	—	2.94	8.40	1.95	—	—	—	.00	.00	.00	.00	.00	.00
A11C2	AS0708000	39 48	120 28	4,838	Portola	18.28	1.57	4.76	1.20	.29	3.08	4.66	.15	.00	.16	1.60	.00	.77
GC0A2	B20713600	38 21	120 56	350	Preston School	16.58	1.64	5.86	1.69	.73	1.99	3.76	.04	.00	.00	.00	.00	.82
A11A2	AS0719500	39 56	120 56	3,409	Quincy Ranger Station	28.67	2.56	10.98	2.30	1.01	4.75	4.66	.07	.17	.03	.07	.00	2.04
A11C0	AS0721500	39 26	121 19	1,400	Rackeby	31.15	3.89	9.39	3.02	1.73	3.73	7.18	.17	.12	.02	.05	.20	1.65
BC0B0	BC0722121	38 18	120 32	2,540	Railroad Flat	30.10	3.45	8.41	1.89	2.30	4.12	6.37	.36	.00	.00	.00	.00	1.25
BC0B0	BC0722122	38 20	120 33	2,720	Railroad Flat AD	26.80	2.80	.80	1.80	1.80	3.60	6.70	.10	.10	.20	.40	.20	2.00
AC0B1	AC0724700	38 35	121 18	85	Rancho Cordova	15.16	1.78	5.44	1.78	.76	1.60	3.31	.00	.00	.00	.00	.00	.40
AC0B1	AC0724702	38 36	121 18	68	Rancho Cordova TP	15.29	1.48	5.78	1.48	.38	2.18	3.30	.15	.00	.17	.00	.00	.36
G1000	G20726104	40 47	120 16	5,350	Ravendale S ESE	8.00	1.28	2.64	.36	.35	.85	.77	.14	.15	.16	.19	.00	1.11
A1380	AC0729000	40 09	122 15	1,811	Red Bluff NB Airport	17.01	1.83	6.69	1.95	.63	.90	3.05	.05	.18	.03	.35	.19	1.16
AT7A0	AC0729810	40 33	122 23	470	Redding Fire Station #4	31.27	2.80	10.51	2.44	1.20	3.20	3.26	.39	1.15	1.48	.03	.24	4.62
AC0B1	AT0737000	38 41	121 09	295	Reprea	16.40	1.83	5.68	1.87	.74	2.02	3.08	.00	.00	.00	.00	.18	.70
AT070	AC0742204	39 29	121 44	103	Richvale	17.22	2.50	7.33	1.22	.68	1.17	2.30	.11	.00	.00	.00	.18	1.73

TABLE A-1 (CONTINUED)

ARIAL CODE	STATION NUMBER	LAT	LONG	ELEV	STATION NAME	TOTAL	1984 PRECIPITATION IN INCHES												1985				
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
AC5B1	AC0748334	38 40	121 27	82	Rio Linda Treatment Plant	14.31	1.46	5.43	1.66	1.03	1.63	2.70	.16	.00	.12	.00	.00	.12	.12				
AC100	BS0748463	38 08	121 35	40	Rio Vista	14.11	1.49	5.43	1.30	.62	1.86	2.63	.36	.62	.00	.00	.00	.00	.00				
AC22AC	AC0748464	38 09	121 46	145	Rio Vista SW	14.07	1.40	5.45	1.32	.90	1.75	2.80	.25	.00	.20	.00	.00	.00	.00				
AC07AC	AC0748700	38 52	121 43	20	Robbins	15.44	2.30	5.50	1.62	.89	1.36	2.68	.06	.00	.03	.00	.03	.97	.97				
AC06BA	AC0748900	38 54	121 21	5,175	Robbs Peak *	45.62	6.20	17.73	2.77	2.03	4.11	7.75	1.56	.00	.00	.41	.00	.00	3.16				
AO5B1	AC0756530	38 43	121 11	298	Rosaville Filter Plant	18.56	2.12	7.19	1.27	.90	2.55	3.88	.00	.00	.00	.00	.00	.00	.65				
A130C3	A20758100	40 48	121 56	2,100	Round Mountain PG and E	44.18	4.58	17.05	2.60	1.22	4.26	5.45	.46	1.22	.78	.23	.25	6.68	6.68				
AO5B2	AC0762934	38 41	121 35	18	Sacramento Metro Airport	14.83	1.47	4.25	.93	.73	3.31	2.21	.00	.00	.03	.00	.00	.00	.00				
AC5A2	AC0763000	38 31	121 30	17	Sacramento WB AP	11.16	1.39	3.61	1.23	.65	1.52	1.98	.00	.00	.00	.00	.00	.00	.00				
AO5A2	AC0763300	38 35	121 29	25	Sacramento WB City	15.78	1.87	5.46	1.75	1.07	1.85	2.79	.11	.02	.14	.00	.00	.00	.00				
CG0070	AC0768100	39 25	125 18	6,337	Sagehen Creek	25.11	2.69	9.35	.96	.54	3.18	5.53	.13	.14	.30	.61	.14	2.71	2.71				
BO4EC	AC0768900	38 29	122 12	3,700	Salt Springs Power House	39.27	4.32	12.29	2.54	1.77	4.66	3.88	.98	.00	.36	.23	.16	3.58	3.58				
BS500	AC0770200	38 09	120 40	830	San Andreas 2S	24.11	3.29	6.46	2.15	1.68	3.37	5.76	.33	.00	.50	.00	.16	.45	.45				
BO500	AC0770500	38 11	120 40	1,100	San Andreas Ranger Station	21.93	3.03	5.53	1.72	1.36	3.69	5.28	.20	.00	.50	.00	.00	.00	.00				
AC24AC	AC0783500	40 43	122 25	1,076	Shasta Gap	45.64	2.74	20.37	3.62	1.21	3.18	4.34	.67	.25	.24	1.69	.29	6.38	6.38				
AC2BC	AO0801340	40 36	122 29	1,020	Shasta State Park	44.77	2.64	21.83	2.24	1.19	3.99	3.67	.58	1.27	.98	.54	.32	5.52	5.52				
BO500	AC0801450	38 12	122 07	2,350	Sheep Ranch	27.10	3.30	8.40	1.90	1.50	3.00	6.80	.00	.00	.00	.00	.00	.00	.00				
A1B02	AC0801750	40 30	121 54	2,800	Shingletown 2M	39.35	4.57	14.74	4.40	1.55	2.56	5.73	.50	1.10	.10	.24	.32	3.54	3.54				
A1CFA	AC0802700	39 33	126 38	4,150	Sierra City	47.91	6.14	15.42	3.50	.84	8.93	1.10	.91	.46	.30	.28	.37	.37	.37				
A11CA	AC0802180	39 35	120 22	4,975	Sierraville Ranger Station	20.17	2.24	6.69	.72	.65	3.93	4.91	.16	.02	.20	.61	.08	.66	.66				
A1C1A	AC0803000	39 12	121 17	800	Smartville	25.20	3.16	7.66	2.25	1.05	3.84	5.45	.14	.00	.15	.00	.17	1.33	1.33				
BO300	AC0803200	37 56	120 49	240	Snake Ranch	12.06	1.45	4.03	1.68	1.00	.90	2.29	.14	.00	.28	.00	.00	.29	.29				
BO100	AC0805580	37 54	121 15	22	Stockton WB AP	10.90	1.47	3.53	1.69	.67	.85	2.21	.13	.00	.22	.00	.00	.00	.00				
BO380	AC0806600	38 00	121 18	12	Stockton Fire Station #	13.62	1.48	4.24	1.80	.86	1.35	2.59	.27	.00	.21	.00	.00	.00	.00				
AC07B1	AC0807600	39 39	122 23	540	Stone Valley	15.64	1.18	6.00	.99	.40	.50	2.86	.15	.00	.00	.00	.00	.00	.00				
A14C1	A30805800	39 23	122 32	1,168	Stonyford Ranger Station	—	1.04	5.99	2.46	.40	1.31	2.82	.32	.00	.00	.00	.10	.88	.88				
A14C3	A30805801	39 15	122 33	3,000	Stonyford-Espino	36.55	2.52	15.86	4.30	.92	4.69	5.30	.64	.19	.00	.23	.08	1.82	1.82				
A14B2	A30805700	39 35	122 32	770	Stony Gorge Reservoir	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
A1CE1	AC0806000	39 22	121 36	3,080	Strawberry Valley	58.23	5.40	20.10	3.08	2.40	5.79	11.68	1.52	.60	.10	.22	.15	3.73	3.73				
GO8BC	AC0803609	39 04	120 07	—	Super Pine Point	25.67	2.66	9.19	1.64	.76	3.62	5.37	.37	.02	.31	.29	.07	1.97	1.97				
A17AC	AC0804550	40 41	122 23	800	Summit City	43.30	2.55	16.38	2.68	1.19	3.85	4.60	.51	.81	1.73	.10	.25	7.75	7.75				
GO8BC	AC0807000	38 23	120 33	4,148	Susanneville Airport	8.76	1.39	2.96	.58	.73	1.03	1.38	.01	.05	.00	.03	.00	.60	.60				
BO580	AC0807200	38 16	120 29	2,280	Susanne Ranch Road	30.25	3.85	9.05	1.75	2.10	3.35	7.95	.55	.30	.00	.00	.25	1.10	1.10				
GO580	AC0807500	39 09	120 08	6,230	Tahoe City	24.43	3.34	9.25	1.40	.35	1.90	5.90	.14	.00	.39	.21	.11	1.44	1.44				
CI000	AC0808303	40 52	120 26	5,300	Terro IE	8.19	1.29	1.86	.32	.66	.75	1.23	.05	.19	.05	.26	.05	1.48	1.48				
AO8BC	AC0808940	39 30	121 41	141	Thermalito Afterbay	16.89	2.30	6.36	1.77	.79	.88	2.25	.00	.00	.00	.00	.14	1.92	1.92				
BO4EC	AC0809200	38 26	120 29	2,355	Tiger Creek Power House	35.46	4.18	10.96	2.62	2.14	4.65	8.67	.36	.00	.00	.00	.14	1.27	1.27				
AO7AC	AC0809300	39 01	121 49	40	Tisdale Weir	16.19	1.55	1.18	1.76	.87	3.31	2.79	.00	.00	.00	.00	.00	.00	.00				
AO7AC	AC0809301	39 01	121 46	30	Tisdale Bypass	20.44	1.65	10.74	1.75	.92	1.32	2.53	.24	.00	.00	.00	.00	.12	1.17				
AO5B1	AC0809834	38 36	121 24	50	Town and Country Mitchell	17.76	1.97	6.05	1.90	.82	1.91	2.74	.25	.02	.16	.00	.00	.03	1.30				
BO100	BS0899900	37 41	121 24	137	Tracy Carbons	7.23	1.17	2.72	.62	.45	.50	1.46	.25	.00	.00	.00	.00	.00	.00				
BO100	BS0900000	37 47	121 34	61	Tracy Pumping Plant	9.50	1.41	3.80	1.25	.42	.81	1.20	.21	.00	.40	.00	.00	.00	.00				
A14C1	A30903015	39 18	122 39	4,000	Trough Springs	31.32	.32	14.10	3.50	.80	4.70	5.30	1.00	.00	.30	.00	.00	1.30	1.30				
GO680	AC0904300	39 19	121 11	5,995	Truckee Ranger Station	25.33	2.43	8.07	1.47	.59	3.54	6.47	.23	.00	.45	.63	.10	1.54	1.54				
A11E1	AC0905000	40 01	121 04	2,840	Twin	27.97	2.39	9.54	1.93	1.07	3.93	6.36	.15	.06	.00	.15	.00	2.39	2.39				
AO686	AC0910500	38 42	120 02	7,829	Twin Lakes	35.15	4.20	10.78	1.56	1.19	3.12	8.14	.85	.00	.44	.53	.33	3.54	3.54				
AO683	AC0914300	38 51	120 26	4,785	Upper Valley	43.19	4.74	13.53	3.17	2.07	5.48	9.82	1.29	.11	.51	.00	.12	2.35	2.35				
AO405	AC0916700	38 11	123 02	1,524	Upper Lake T W	36.13	2.89	14.26	2.76	.86	4.19	8.64	.28	.06	.00	.00	.12	2.07	2.07				
AO2AC	AC0920000	38 21	121 56	104	Vacaville	—	1.57	8.13	1.44	.97	2.81	—	—	.00	.00	.00	.00	.53	.53				
AO5B2	AC0930700	38 47	121 35	43	Verona	14.91	1.67	5.33	1.54	1.19	1.19	3.27	.07	.00	.00	.00	.10	.48	.48				
A138C	AC0933902	39 56	122 02	235	Vina 1 NE	19.55	2.03	8.75	1.83	.70	3.65	3.25	.53	.00	.00	.00	.14	1.69	1.69				
A11CA	AC0935100	39 49	120 11	4,945	Vinton	8.61	1.48	2.44	.39	.47	.99	1.77	.00	.00	.25	.00	.00	.76	.76				
A1B02	AC0939000	40 27	121 52	2,200	Volta Power House	31.77	8.61	3.32	3.39	1.18	1.68	3.04	.81	.53	.09	.23	.13	2.69	2.69				
AC100	AC0942800	38 14	121 31	20	Walnut Grove	16.68	1.59	5.78	1.72	1.31	2.32	3.57	.07	.00	.24	.00	.00	.08	.08				
AC100	AC0945429	39 18	120 56	3,800	Washington Ridge	41.60	5.70	16.73	2.68	6.55	1.52	5.87	.00	.00	.39	.00	.00	2.16	2.16				
A100C	AC0945500	39 21	120 47	2,680	Washington	39.09	4.31	15.59	3.05	1.18	5.24	6.42	.77	.16	.39	.00	.00	1.99	1.99				
GO8BC	AC0952601	40 21	121 12	4,040	Wendell 1	6.82	1.47	1.57	.25	.64	.88	1.42	.02	.00	.10	.01	.00	.46	.46				
BO4EC	BS0958200	38 24	120 32	2,740	West Point	—	3.31	9.13	1.90	1.64	3.30	5.20	.23	.03	.40	.00	.00	1.29	1.29				
AC080	AC0960500	39 02	121 23	105	Wheatland 2NE	21.89	6.80	5.60	1.60	1.20	2.39	3.40	.10	.00	.00	.00	.00	.80	.80				
A15B2	AC0962100	40 37	122 32	1,310	Whiskeytown Reservoir	46.11	2.71	21.86	3.30	1.26	3.27	5.39	.46	.73	1.09	.97	.35	4.72	4.72				
AC07B1	AC0967700	39 09	122 09	90	Williams	—	.96	6.43	1.77	.68	—	2.61	.02	.00	.00	.00	.00	.00	.00				
GO8BC	AO0969631	40 34	120 40	1,930	Willow Creek Murrer Ranch	11.92	1.01	4.88	.21	.62	1.42	1.80	.10	.08	.06	.27	.08	1.39	1.39				
AC07B1	AC0969910	39 33	121 18	233	Willow Gap	15.35	.91	6.87	2.12	.53	.50	3.68	.47	.00	.00	.00	.00	.00	.00				
AC02B0	AC0974200	38 31	121 58	135	Winters	17.77	1.77	7.50	1.36	1.53	2.66	3											

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TABLE A-2
STORAGE GAGE PRECIPITATION DATA

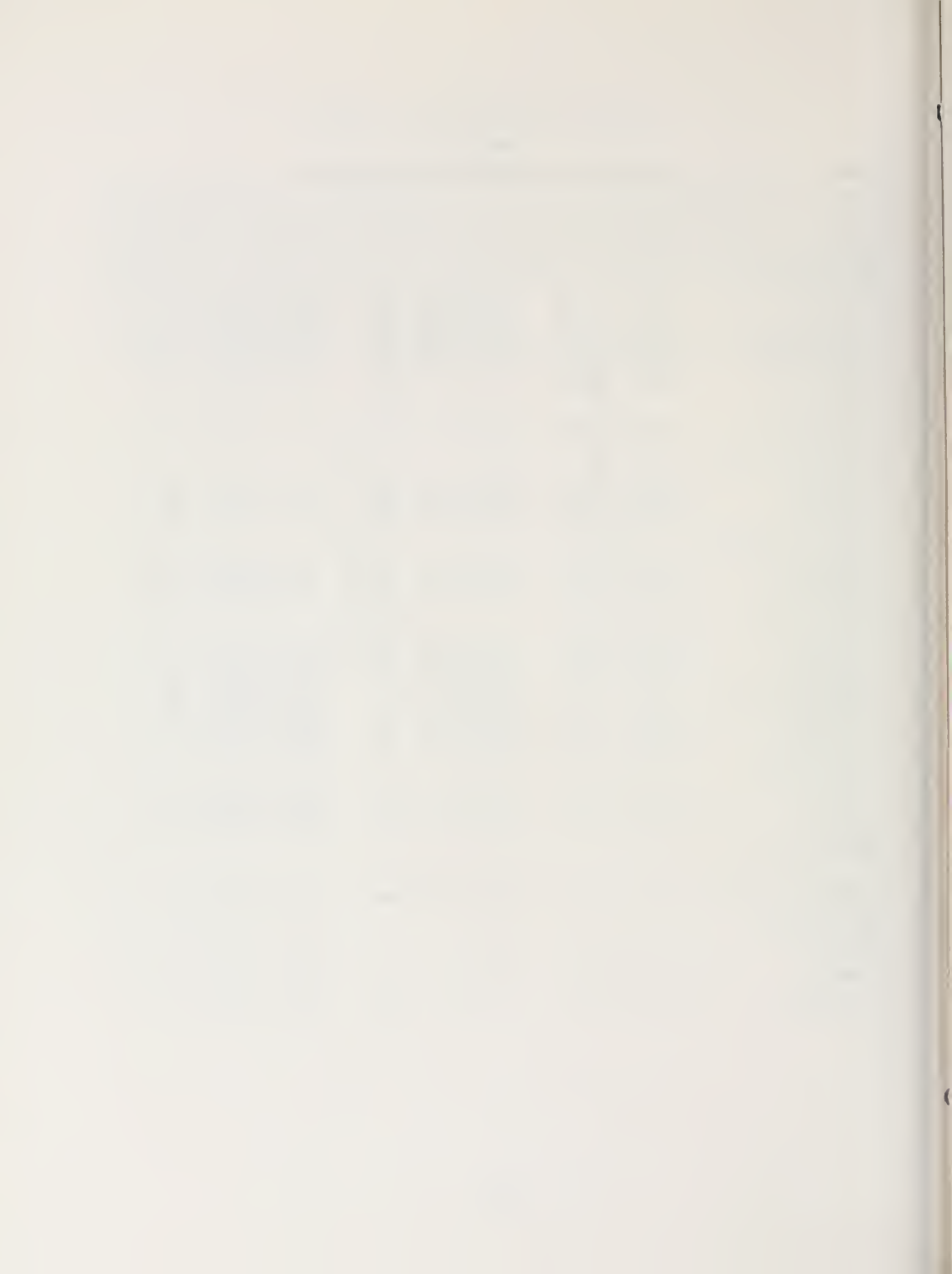
Storage gages are used to record seasonal precipitation in remote regions. They consist of tanks which store an entire year's precipitation and are read annually. Although logistics preclude conducting the measurement exactly at the end of the water year, the gages reasonably depict the total precipitation for the water year since precipitation during the summer months is negligible. In preparation for a new water year, the tanks are emptied, cleaned, and supplied with antifreeze and oil to prevent freezing and loss due to evaporation. Table A-2 lists the values from the storage gages. The locations of the storage gages are shown in Figure 3.

The counties in which storage gage stations are located are identified with the code listed below:

County	Code
Alpine	ALP
Colusa	COL
Glenn	GLE
El Dorado	ELD
Lassen	LAS
Modoc	MOD
Nevada	NEV
Placer	PLA
Plumas	PLU
Siskiyou	SIS
Shasta	SHA
Tehama	TEH

TABLE A-2
STORAGE GAGE PRECIPITATION DATA

Station Name	Station Number	Areal Code	County	Lat.	Long.	Elev.	Measurement Period	Precipitation (Inches)
Sacramento River Basin								
Pit River A1								
Blacks Mountain	A10 0867	A23C1	LAS	40-46-00	121-12-00	7200	07/23/84 to 06/17/85	22.87
Butte Lake	A10 1238	A23B6	LAS	40-33-48	121-18-06	6060	09/29/84 to 09/18/85	34.15
Dead Horse Reservoir 2SE	A10 2320	A23E4	MOD	41-42-00	120-33-00	5075	07/25/84 to 06/20/85	12.58
Lassen Creek - Upper	A10 4815	A24A0	MOD	41-45-	120-14-42	6775	07/26/84 to 06/20/85	18.65
Long Bell Station	F10 5081	A23D3	MOD	41-28-00	121-25-00	4375	07/17/84 to 06/25/85	18.65
Medicine Lake	F10 5505	A23C3	SIS	41-35-00	121-37-00	6725	07/17/84 to 06/25/85	32.90
Patterson Meadow	A10 6750	A23E3	MOD	41-11-00	121-12-00	7000	07/25/84 to 06/19/85	14.59
Pepperdine Camp	A10 6803	A23E2	MOD	41-26-30	120-14-00	6650	07/25/84 to 06/19/85	27.27
Swagert Flat	A10 8718	A23D2	MOD	41-14-	120-47-30	6000	07/24/84 to 06/18/85	26.75
Shasta Lake A2								
Mount Shasta Slope	A20 5982	A21B2	SIS	41-22-00	122-16-00	7500	07/19/84 to 06/27/85	45.83
Stouts Meadow	A20 8591	A22A4	SHA	41-10-00	121-56-00	5300	07/18/84 to 06/26/85	47.64
Sacramento Valley Westside A3								
Alder Springs	A30 0090	A14B1	GLE	39-39-39	122-42-26	4400	10/11/84 to 10/01/85	33.30
Ball Mountain L.O.	A30 0468	A16A0	TEH	39-56-00	122-47-00	6500	07/12/84 to 06/10/85	34.80
Log Spring	A30 5042	A16A0	TEH	39-49-36	122-47-29	5050	10/10/84 to 10/01/85	31.60
Noel Spring	A30 6211	A14B2	GLE	39-32-16	122-40-03	5000	10/11/84 to 10/02/85	30.90
Saddle Camp R.S.	A30 7637	A19A1	TEH	40-11-00	122-48-00	3850	07/19/84 to 06/09/85	28.88
Trough Spring	A30 9037	A14C1	COL	39-17-48	122-39-11	4000	10/12/84 to 10/02/85	29.90
Sacramento Valley Northeast A4								
Dewitt Peak 2WSM	A40 2416	A15C2	TEH	40-08-43	121-58-23	1480	07/13/84 to 06/14/85	17.65
Hogback Road	A40 4019	A1502	TEH	40-13-27	122-00-03	1320	07/09/84 to 06/10/85	19.05
McCarthy Point	A40 5444	A15C2	TEH	40-11-00	121-41-00	3800	07/11/84 to 06/12/85	29.50
Twenty Mile Hollow	A40 9098	A15C1	TEH	40-07-33	121-48-12	2800	07/11/84 to 06/12/85	20.85
Feather River A5								
Boulder Creek G.S.	A50 1002	A11E4	PLU	40-11-52	120-36-45	5020	08/22/84 to 08/21/85	19.58
Camel Peak	A50 1348	A11C1	PLU	39-43-26	121-05-58	5560	08/21/84 to 08/20/85	14.90
Clarks Peak 1 NE	A50 1783	A11E5	PLU	40-12-50	120-29-34	5910	08/22/84 to 08/21/85	19.49
Clover Valley	A50 1845	A11E6	PLU	39-56-40	120-27-00	5500	08/21/84 to 08/20/85	14.90
Granite Spring	A50 3544	A11E5	PLU	40-06-23	120-20-34	5765	08/22/84 to 08/21/85	15.92
Lights Creek	A50 4932	A11E3	PLU	40-13-48	120-42-30	5320	08/22/84 to 08/22/85	25.09
Little Last Chance Valley	A50 4977	A11C5	PLU	39-57-40	120-13-00	5730	08/21/84 to 08/20/85	13.87
Mt. Hough Snowcourse	A50 5956	A11E2	PLU	40-02-29	120-52-43	6760	08/21/84 to 08/19/85	35.32
Onion Valley	A50 6452	A11C2	PLU	39-48-00	120-53-06	6530	08/20/84 to 08/19/85	39.48
Swain Mountain	A50 8716	A1102	PLU	40-26-40	121-06-00	6160	08/22/84 to 08/21/85	53.82
Three Mile Valley	A50 8909	A11C3	PLU	39-54-05	120-34-15	5900	08/21/84 to 08/20/85	27.19
American River A7								
Brushy Springs G.S.	A70 1133	A06C2	PLA	39-00-20	120-34-40	4880	08/17/84 to 08/30/85	37.89
Robertson Flat	A70 7492	A06C2	PLA	39-09-26	120-30-06	6740	08/17/84 to 08/30/85	56.23
The Cedars	A70 8881	A06D5	PLA	39-15-00	120-21-12	5900	08/08/83 to 09/06/85	141.42
Westville	A70 9597	A06D5	PLA	39-10-30	120-39-08	5290	08/17/84 to 08/30/85	51.17
San Joaquin River Basin								
Cosumnes River B1								
Lumberyard	B10 5189	B04C0	ELD	38-32-55	120-18-24	6480	08/14/84 to 08/09/85	56.40
Mokelumne-Calaveras Rivers B2								
Highland Lakes	B20 3952	B04C0	ALP	38-29-48	119-47-48	8700	07/18/84 to 08/15/85	24.00
North Lahontan Area								
Madeline Plains G2								
Dodge Reservoir 3 NWE	G20 2460	G1100	LAS	41-00-30	120-07-30	6400	07/24/84 to 06/18/85	12.73
Eagle Lake G3								
Champs Flat	G30 1644	G08C1	LAS	40-41-42	120-57-30	5590	07/23/84 to 06/17/85	12.20
Truckee River G7								
Brockway Summit	G70 1096	G05B0	NEV	39-16-	120-04-	7200	09/18/84 to 09/18/85	26.10



APPENDIX B

SURFACE WATER MEASUREMENT

APPENDIX B

SURFACE WATER MEASUREMENT

Appendix B presents the daily mean discharges and daily mean stages (water levels) at designated stations in Northeastern California for the water year October 1, 1984 through September 30, 1985. Daily mean discharge data are contained in Table B-1, pages 38 through 99. Daily mean stage data are listed in Table B-2, pages 101 through 115. These data are presented by station in downstream order. (Stations on a tributary are arranged in downstream order with respect to the tributary flow, and are listed between the main stream stations that straddle the tributary junction.)

Surface water stations are named for the stream and a landmark or post office, such as "Bear Creek near Lodi." The first character of a surface water station number designates the basin in which the station is located and for this volume, is one of the areal code letters shown in Figure 1. The second character, a numeric, designates a specific tributary area within the major basin. These two characters, therefore, indicate the general location of the station.

The discharge table data includes the maximum and minimum discharges and their corresponding gage heights, the maximum discharge of record, station description, and other pertinent data concerning each station. Discharge stations in this appendix are listed on pages 30 and 31. Their locations are shown on Figure 4, pages 32 through 37. The basins and tributary areas pertaining to the discharge measurements are:

BASIN A - SACRAMENTO RIVER

- Tributary area 0 - Sacramento Valley Floor
- Tributary Area 1 - Pit River
- Tributary Area 4 - Sacramento Valley Northeast
- Tributary Area 8 - Cache Creek
- Tributary Area 9 - Putah Creek

BASIN B - SAN JOAQUIN RIVER

- Tributary Area 0 - San Joaquin Valley Floor

BASIN G - NORTH LAHONTAN

- Tributary Area 1 - Surprise Valley
- Tributary Area 3 - Eagle Lake
- Tributary Area 6 - Herlong

The discharge estimated for periods of no record are shown with the letter "E." Also qualified by the letter "E" are discharges obtained from extended ratings which exceed 140 percent of the highest measured flow-rate on which the rating curve was based. The discharge figures have been rounded as follows:

Daily flows - second-feet

0.0	-	9.9	nearest Tenth
10	-	999	nearest Unit
1,000	-	9,999	nearest Ten
10,000	-	99,999	nearest Hundred
100,000	-	999,999	nearest Thousand

Monthly means - second-feet

0.0	-	99.9	nearest Tenth
100	-	9,999	nearest Unit
10,000	-	99,999	nearest Ten
100,000	-	999,999	nearest Hundred

Monthly and yearly totals - acre-feet

0.0	-	9,999	nearest Unit
10,000	-	99,999	nearest Ten
100,000	-	999,999	nearest Hundred
1,000,000	-	9,999,999	nearest Thousand

Index to Daily Mean Discharge Table

Station Name	Station Number	Map Page	Data Page
Alder Creek at Glenbrook	A85710	36	78
Ash Creek at Adin	A18350	33	39
Bear Creek near Lodi	B02010	37	93
Bear Creek near Rumsey	A81250	36	81
Bidwell Creek near Ft. Bidwell	G12200	33	94
Big Chico Creek at Chico	A04250	34	52
Burney Creek at Park Ave near Burney	A15145	32	40
Butte Creek near Durham	A04265	34	66
Butte Slough at Outfall Gates	A02967	34	56
Butte Slough near Meridian	A02972	34	68
Cache Creek at Rumsey	A81135	36	82
Calavaras River near Stockton	B02520	37	89
Cedar Creek at Cedarville	G15150	33	95
Cherokee Canal near Richvale	A02984	34	67
Colusa Basin Drain at Highway 20	A02976	34	61
Colusa Basin Drain at Knights Landing	A02945	36	64
Colusa Weir Spill to Butte Basin near Colusa	A02981	34	55
Cottonwood Creek North Fork near Igo	A03545	34	41
Dry Creek below Roseville	A00041	37	85
Duck Creek near Stockton	B02835	37	92
Eagle Creek at Eagleville	G17150	33	96
Emerson Creek near Eagleville	G14500	33	97
Feather River near Gridley	A05165	34	74
Fremont Weir Spill to Yolo Bypass	A02930	36	65
French Camp Slough near French Camp	B02805	37	91
Freshwater Creek near Williams	A00647	34	62
High Valley Creek above Kelsey Creek	A85610	36	80
Honcut Creek, North, near Bangor	A05735	35	87
Kelsey Creek at Glenbrook	A85701	36	77
Kelsey Creek below Kelseyville	A85005	34	79

Index to Daily Mean Discharge Table (Continued)

Station Name	Station Number	Map Page	Data Page
Lindo Channel near Chico	A00615	34	49
Little Chico Creek near Chico	A04280	34	50
Little Chico Diversion near Chico	A04910	34	51
Long Valley Creek near Hallelujah Junction	G61705	35	99
Middle Creek near Upper Lake	A81810	34	76
Mill Creek near Mineral	A44180	34	44
Mosher Creek near Stockton	B02008	37	88
Moulton Weir Spill to Butte Basin near Colusa	A02986	34	54
Mud Creek Diversion at Chico	A00928	34	48
Mud Creek near Chico	A04242	34	47
Pine Creek at Eagle Lake near Susanville	G31140	33	98
Pine Creek near Alturas	A14100	33	38
Pope Creek near Pope Valley	A95010	36	83
Putah Creek, South Fork, near Davis	A09115	36	86
Reclamation District #70 Drain to Sacramento River	A02965	34	59
Reclamation District #108 Drain to Sacramento River	A02933	36	58
Reclamation District #787 Drain to Colusa Basin Drain	A02950	36	63
Reclamation District #787 Drain to Sacramento River	A02955	36	60
Reclamation District #1500 Drain to Sacramento Slough	A02926	36	72
Reclamation District #1660 Drain to Sutter Bypass near Tisdale	A05922	34	69
Reclamation District #1660 Drain to Tisdale Bypass	A02963	34	71
Red Bank Creek near Red Bluff	A03460	34	43
Reeds Creek at Wilder Road	A00268	34	42
Sacramento River at Hamilton City	A02630	34	46
Sacramento River at Ord Ferry	A02570	34	53
Sacramento River at Vina Bridge	A02700	34	45
Sacramento Slough at Sacramento River	A02925	36	73
Sacramento Weir Spill to Yolo Bypass	A02903	36	84
Scotts Creek at Eickhuff Road near Lakeport	A81845	34	75
Stockton Diversion Canal at Stockton	B02580	37	90
Tisdale Weir Spill to Sutter Bypass	A02960	34	57
Wadsworth Canal near Sutter	A05929	34	70

42°

122°

LEGEND

SURFACE WATER MEASUREMENT STATIONS



DISCHARGE DATA



STAGE DATA



DISCHARGE and STAGE DATA

A2

MAJOR BASIN and TRIBUTARY AREA



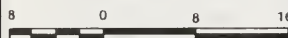
MAJOR BASIN BOUNDARY



BOUNDARY of TRIBUTARY AREA



KEY TO SHEETS



Scale in Miles

123



See Sheet 2

122°

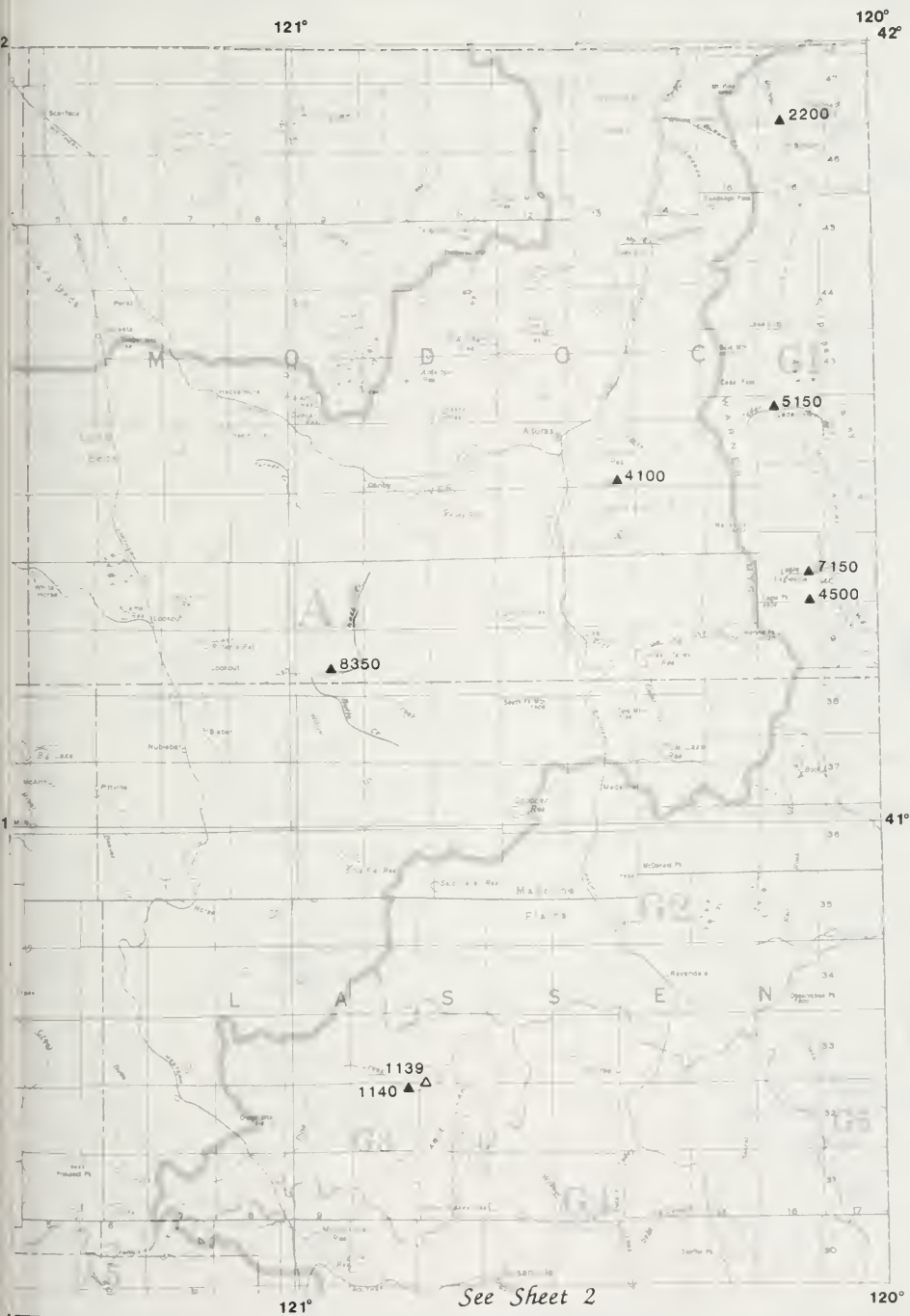
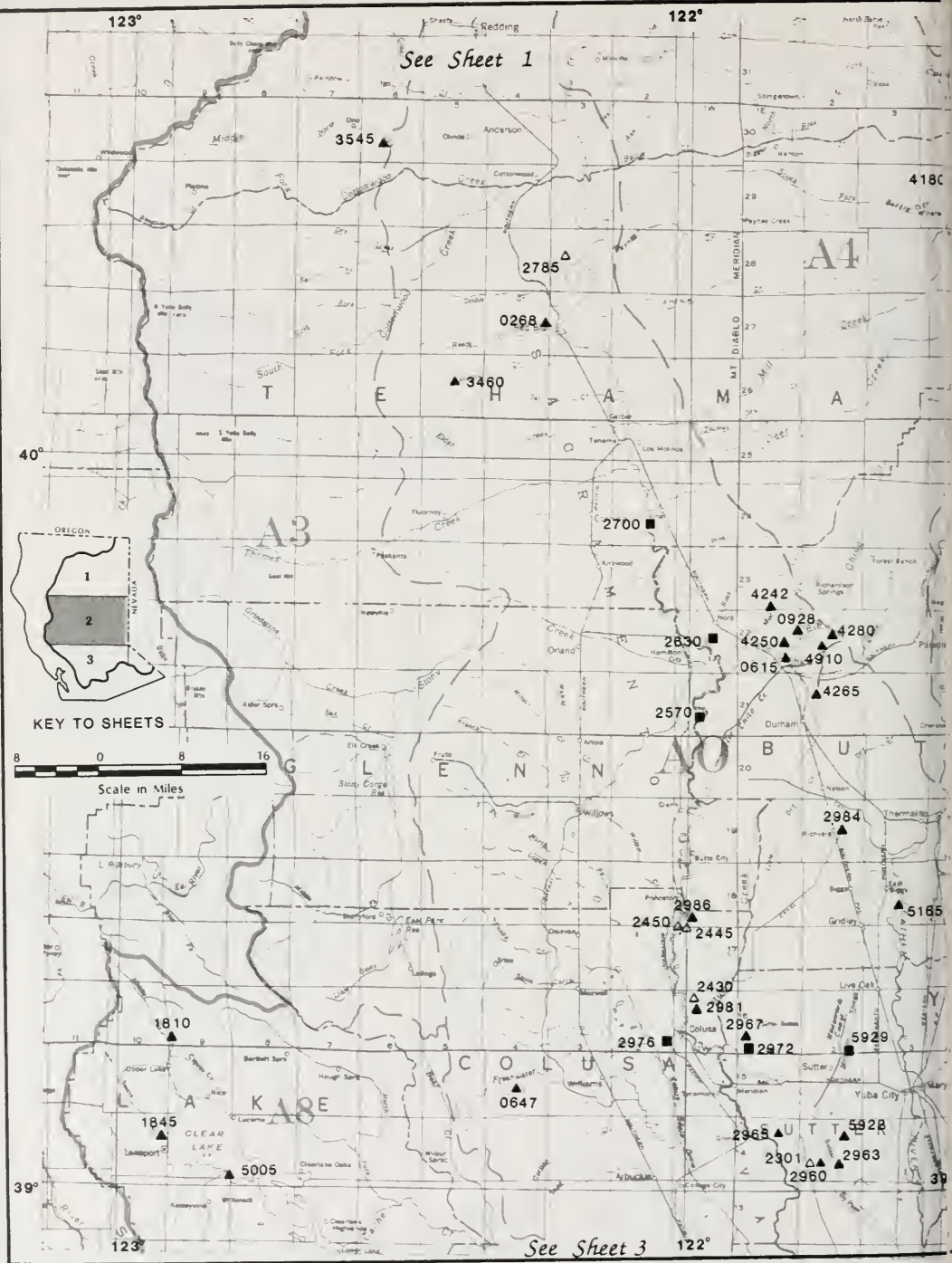
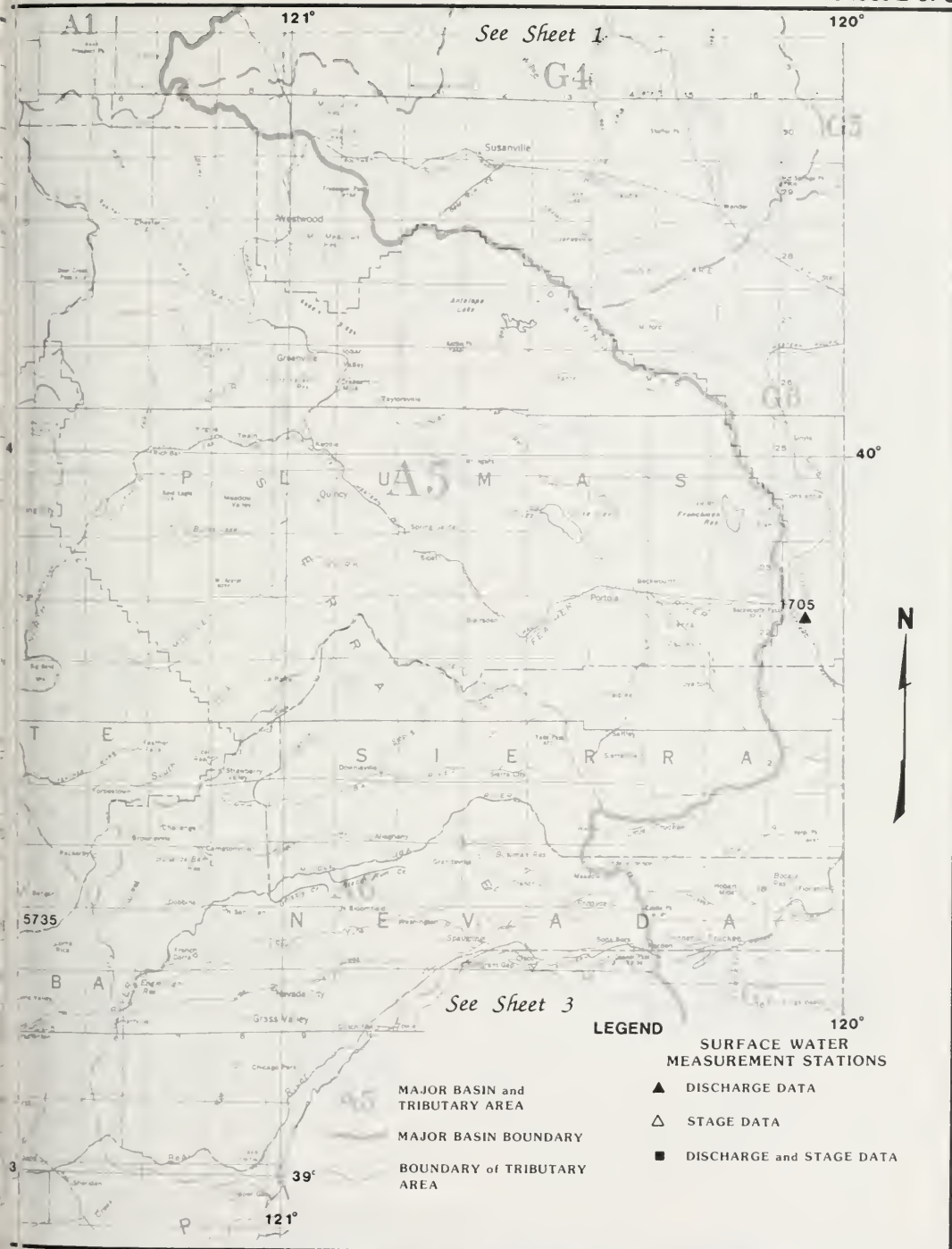


Figure 4. LOCATION OF SURFACE WATER MEASUREMENT STATIONS





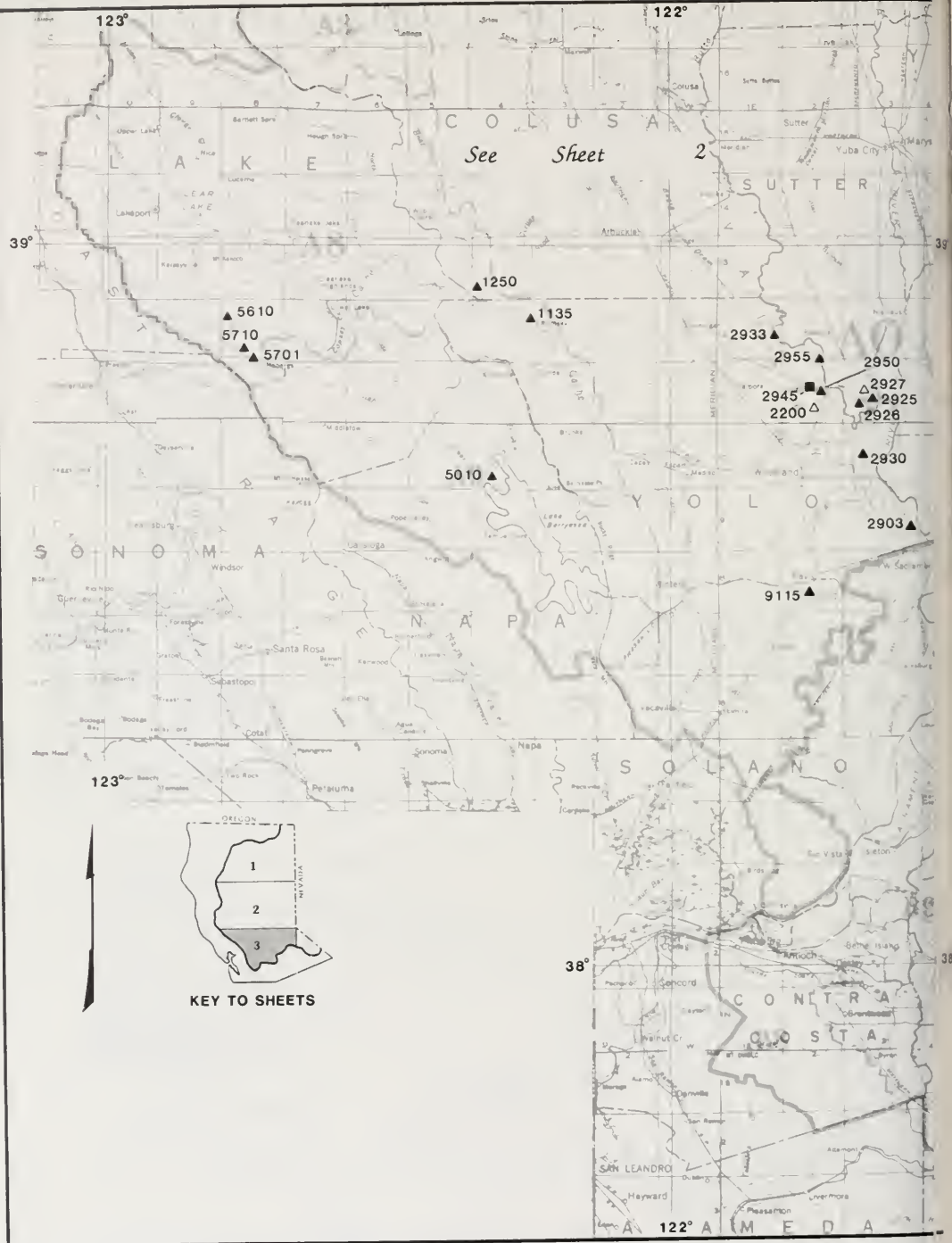




TABLE B-1
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A14100 PINE CREEK NEAR ALTURAS

LOCATION: LAT 41-25-54, LONG 120-26-18, T42N, R13E, SEC. 35, MD B&M MODOC COUNTY

DRAINAGE AREA: 23.9 SQ MILES

HYDROLOGIC AREA: A-23.E2

WATER DAY	YEAR OCT	OCTOBER NOV	1984 through DEC	JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	21*	19	23	27	16E	18	32	35	41	25	17	13	1
2	20	21	23	27	16E	17	21	37	38	26	17	15	2
3	20	21	22	28	16E	16	20	37	37	25	17	13	3
4	20	19	20*	28	16E	16	20	36	36	24	16	13	4
5	19	19*	21	28	16E	16	20	38	35	23	16	13	5
6	20	19	20	25	16E	15	22	40	34	23	16	13	6
7	19	19	20	19*	16E	15	24	42	33	22	16	13	7
8	19	20	20	18	16E	15	24	42*	33	23	16	16	8
9	19	19	20	17	16E	15	26	42	33	22	16	14	9
10	19	19	28	16E	16E	16	27	41	35	21	16	13	10
11	21	20	31	16E	16E	17	27*	41	36	21*	15	13	11
12	20	20	27	16E	16E	16	26	41	36	20	15	13	12
13	21	20	22	16E	15	16*	28	40	36*	20	15	13	13
14	20	20	19	16E	15	16	30	39	36	19	15	13	14
15	19	20	26	16E	16	16	32	38	36	19	15	12	15
16	20	20	22	16E	16	16	32	37	36	19	15	12	16
17	20	19	25	16E	17	16	31	37	35	19	15	13	17
18	20	19	25	16E	20	16	32	37	35	18	15	12	18
19	20	19	25	16E	24	17	34	37	35	18	15	12	19
20	20	20	25	16E	22	16	35	37	34	18	14	12	20
21	20	20	27	16E	19	16	35	37	33	18	14	12	21
22	19	20	28	16E	20	16	35	37	32	19	14	12	22
23	19	21	28	16E	22	16	34	38	32	18	14	12	23
24	20	24	28	16E	24	16	33	39	31	18	14	12	24
25	19	22	28	16E	22	17	33	39	30	18	14	12	25
26	20	20	28	16E	18	16	31	41	30	18	13	12	26
27	19	24	28	16E	17	17	31	42	29	18	13	12	27
28	19	35	28	16E	17	16	32	44	28	17	13	11	28
29	20	29	28	16E	17	17	33	46	27	17	13	11	29
30	19	25	28	16E	22	22	34	44	26	18	13	11	30
31	19		27	16E		40		42		17	13		31

MONTHLY

MEAN	19.7	21.1	24.8	18.4E	17.7E	17.1	29.1	39.5	33.6	20.0	14.8	12.6
MAX	21	35	31	28	24E	40	35	46	41	26	17	16
MIN	19	19	19	16E	15E	15	20	35	26	17	13	11
ACFT	1210	1254	1527	1129E	984E	1051	1734	2426	1999	1232	912	750

MEAN	INSTANTANEOUS	MAXIMUM	FLOW,	1984-85	INSTANTANEOUS	MINIMUM	FLOW,	1984-85	TOTAL
FLOW	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	ACRE FEET
22.4	March 31	1930	66	1.95	September 27	2115	11	0.86	16208

REMARKS:

Station located approximately 0.3 miles north of Pine Creek Blvd., 6.1 miles southeast of Alturas. Tributary to Pit River.

Stage-discharge relationship affected by ice at times.

Period of record for discharge is November 1957 to date.

Period of record for gage height is November 1947 to date.

The datum for this station from 1957 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1957:

	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	435	3.37	June 02, 1971	1600
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

= E and *.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A18350 ASH CREEK AT ADIN
LOCATION: LAT 41-11-54, LONG 120-56-32, T39N, R09E, SEC. 21, MD B&M MODOC COUNTY
DRAINAGE AREA: 257.91 SQ MILES HYDROLOGIC AREA: A-23.D1

WATER YEAR	OCTOBER	1984	through	SEPTEMBER	1985								
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
DATA INSUFFICIENT TO COMPUTE DISCHARGE													
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

MONTHLY
MEAN
MAX
MIN
ACFT

MEAN FLOW NR	INSTANTANEOUS DATE	MAXIMUM FLOW TIME	1984-85 G.H.	INSTANTANEOUS DATE	MINIMUM FLOW TIME	1984-85 G.H.	TOTAL ACRE FEET NR
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REMARKS:

Station located 300 feet above State Highway 299 bridge in Adin. Tributary to Pit River.
Stage-discharge relationship affected by ice at times. Flow affected by upstream diversions.
Period of record for discharge is March 1937 to October 1957 (irrigation season only),
September 1957 to January 1984, January 1984 to date record not available.
Period of record for gage height is same as discharge.
The datum for this station from 1957 to present is 0.00 feet, local.

FOR PERIOD OF RECORD BEGINNING 1957:

INSTANTANEOUS AVERAGE/YEAR	MAXIMUM	FLOW CFS	GAUGE HEIGHT	DATE	TIME
		2950	14.69	January 24, 1970	0100
		Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A15145 BURNBY CREEK AT PARK AVENUE NEAR BURNBY
LOCATION: LAT 40-52-35, LONG 121-40-13, T35N, R03E, SEC. 19, MD B&M SHASTA COUNTY
DRAINAGE AREA: 87.7 SQ MILES HYDROLOGIC AREA: A-23.B2

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	22*	21	79	34	23	43	79	75	45	15	11	7.6	1
2	18	75	62	38	23	42	83	74	42	15	11	10	2
3	17	77	66	34	21	NR	88	72	38	14	10	11	3
4	17	38	64*	31	22	NR	92	67	34	14	9.4	9.7	4
5	16	31*	59	30	23	NR	106	64	32	14	9.3	9.4	5
6	16	42	51	30	21*	NR	115	63	30	14	9.1	9.6	6
7	15	52	46	33*	28	NR	126	62	29	13	8.9	14	7
8	16	63	45	34	94	NR	126	60	26	13	9.0	43	8
9	17	46	44	34	43	NR	130	59	24	13	9.0	31*	9
10	20	58	73	33	35	NR	134*	56	22	12*	9.0	19	10
11	50	117	98	31	33	NR	133	51	21*	12	9.0	16	11
12	27	177	81	30	33	NR	132	50	21	12	9.0	14	12
13	24	200	69	32	34	43	131	48*	19	12	8.9*	12	13
14	23	155	62	31	33	43	137	48	19	12	8.6	12	14
15	21	92	60	28	33	45	145	45	17	11	9.0	11	15
16	23	73	52	26	34	46	140	43	16	11	9.0	11	16
17	23	64	48	26	34	50	124	42	17	11	9.0	11	17
18	23	90	45	26	34	64	113	42	18	11	9.6	11	18
19	24	72	48	25	34	64	113	42	17	11	11	10	19
20	24	68	67	25	34	63	101	41	14	11	10	10	20
21	23	63	41	24	34	64	98	40	14	11	9.8	10	21
22	22	54	40	23	35	56	117	39	15	12	9.7	10	22
23	21	50	40	24	38	54	98	39	14	11	9.3	9.8	23
24	21	70	40	23	41	97	86	34	14	9.8	8.8	9.8	24
25	21	63	39	23	47	81	79	33	15	9.5	8.5	9.8	25
26	21	52	37	23	42	68	73	32	14	9.5	8.8	9.9	26
27	20	95	35	22	41	59	71	31	15	9.5	8.9	10	27
28	20	197	34	23	41	55	73	39	15	9.4	8.5	10	28
29	26	122	34	21	56	75	56	14	9.2	8.0	11	29	29
30	24	97	33	23	61	75	54	14	11	7.9	11	30	30
31	22		33	21	72		44		11	7.8		31	31
MONTHLY													
MEAN	21.8	82.5	52.4	27.8	35.3	NR	106	49.8	21.5	11.7	9.2	12.8	
MAX	50	200	98	38	94	NR	145	75	45	15	11	43	
MIN	15	21	33	21	21	NR	71	31	14	9.2	7.8	7.6	
ACFT	1343	4907	3223	1708	1960	NR	6333	3064	1279	722	565	761	
MEAN													
FLOW	INSTANTANEOUS	MAXIMUM FLOW,	1984-85	INSTANTANEOUS	MINIMUM FLOW,	1984-85							TOTAL
NR	DATE	TIME	FLOW	DATE	TIME	FLOW	DATE	TIME	FLOW	DATE	TIME	FLOW	ACRE FEET
NR	November 28	0345	246	July 29	0630	4.8	3.00						NR

REMARKS:

Station located at Park Ave bridge. Tributary to Pit River.

Prior to October 1, 1974, the gage was located 300' above county road bridge, 0.8 miles southwest of Burnby as station A15150, Burnby Creek near Burnby.

Stage-discharge relationship affected by ice at times. Flow affected by upstream diversions.

Period of record for discharge is November 1974 to date. Period of record for gage height is same as discharge.

The datum for this station from 1974 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1974:

INSTANTANEOUS	MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR		CFS	HEIGHT		
		3170	8.84	January 13, 1980	2030
		Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A03545 NORTH FORK COTTONWOOD CREEK NEAR IGO
LOCATION: LAT 40-26-32, LONG 122-32-57, T30N, R06W, SEC. 21M, MD B&M SHASTA COUNTY
DRAINAGE AREA: 88.7 SQ MILES HYDROLOGIC AREA: A-17.B0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY	
1	24	15	232	94	85	77	115	37	19	3.9	7.1	0.6	1	
2	26	99	314	92	84	77	116	33	23	3.6	6.2	0.6	2	
3	26	43	302	89	83	76	111	34	17	2.8	5.3	1.8	3	
4	24	28	240	85*	85	75	102	32	14	2.1	3.8	2.5	4	
5	24	26	275	85	85	78	101	31	14	1.5	10	2.1	5	
6	24	59	233	85	85	86	98	28	13	1.0	4.1	2.3	6	
7	22	48	216	116	215	106	96	28	11	0.8	2.2	25	7	
8	21	90	205	98	406	90	94	NR	10	0.7	1.3	29	8	
9	21	54	205	146	159	85	92	NR	9.4	0.7	1.0	24	9	
10	20	403	292	115	124	93	89	NR	8.0	0.7	0.9	46	10	
11	21	433	252	109	108	91	86	NR	6.0	0.7	0.9	18	11	
12	20	1020	223	103	107	89	84	NR	5.0	0.7	0.9	14	12	
13	20	966	202	99	104*	86	81	NR	4.5	0.7	0.8	12	13	
14	20	399	188	98	100	86	78	NR	4.8	0.7	0.7	11	14	
15	20	348	187	99	98	84	77	NR	4.4	0.7	0.7	9.7	15	
16	21	380	170	96	96	82	76	17	4.1	0.7	0.7	9.2	16	
17	24	335	169	94	93	82	75	16	4.0	0.6	0.7	8.3	17	
18	21	300	143	88	90	81	73	17	7.7	0.6	0.7	8.4*	18	
19	21	218	132	88	90	82	72	15	5.4	0.6	0.7	8.1	19	
20	21	291	125	90	87	77	72	14	6.0	0.6	0.7	7.9	20	
21	20	226	122	87	87	74	83	13	5.0	0.6	0.7	8.2	21	
22	19	199	119	85	87	74	76	13	4.4	0.6	0.6	8.0	22	
23	18	256	116	85	85	73	71	12	7.9	1.6	0.6	7.6	23	
24	18	464	114	85	85	76	68	12	5.2	1.7	0.6	6.9	24	
25	18	238	112	85	81	73	65	12	3.2	1.0	0.6	7.5	25	
26	18	211	108	85	80	88	64	11	3.3	0.8	0.6	7.3	26	
27	18	665	106	85	79	107	50	17	3.5	0.7	0.6	7.2	27	
28	17	453*	104	85	77	144	43	20	3.4	0.7	0.6	7.8	28	
29	18	309	102	85		128	41	18	3.0	0.7	0.6	7.7	29	
30	17	260	99	85		114	40	14	2.9	9.1	0.6	7.8	30	
31	15*		96	85		114		14		9.9	0.6		31	
MONTHLY														
MEAN	20.5	295	178	93.7	109	88.6	79.6	NR	7.7	1.7	1.8	10.6		
MAX	26	1020	314	146	406	144	116	NR	23	9.9	10	46		
MIN	15	15	96	85	77	73	40	NR	2.9	0.6	0.6	0.6		
ACFT	1263	17530	10920	5764	6040	5451	4739	NR	460	103	111	628		
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85				INSTANTANEOUS MINIMUM FLOW, 1984-85				TOTAL					
FLOW	DATE				DATE				ACRE FEET					
NR	November 13 0330 1880 32.81				July 17 1500 0.6 29.23				NR					

REMARKS:

Station located at county road bridge on Lower Gas Point Rd, 4.4 miles southeast of Ono.
Tributary to Sacramento River via Cottonwood Creek.

Flow affected by upstream diversion and releases from Rainbow Lake.

Period of record for discharge is 1956 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1956 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1956:

	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	11000	39.45	December 22, 1964	0630
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A00268 REEDS CREEK AT WILDER ROAD
LOCATION: LAT 40-09-53, LONG 122-16-27, T27N, R04W, SEC. 25, MD B&M TERAMA COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-13.B0

WATER DAY	YEAR OCT	OCTOBER NOV	1984 DEC	through JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1			4.1	3.8	0.4	2.1	1.5	1.0	3.4				1
2			52	3.8	0.3	2.0	1.5	1.0	1.4				2
3			163*	3.8	0.3	2.0	1.5	0.8	0.9				3
4			NR	3.8*	0.3	2.2	1.2	0.7	0.7				4
5			NR	3.7	0.2	2.5	1.3	0.8	0.6				5
6			NR	3.6	0.2	3.2	1.3	0.9	0.4				6
7			NR	12	0.5	9.9	1.3	1.0	0.3				7
8	N	N	NR	6.1	22*	2.9	1.3	1.0	0.1	N	N	N	8
9			NR	5.5	2.1	2.4	1.4	1.1	0.1				9
10	O	O	NR	5.6	1.3	8.5	1.7	1.2	0.0	O	O	O	10
11			21*	3.2	1.2	4.0	1.8	1.3	0.0				11
12			14	2.9	1.2	2.5	1.5	1.0	0.0				12
13			9.2	2.6	1.2	2.6	1.3	1.0	0.0				13
14			7.3	2.5	1.4	2.6	1.3	0.8	0.0				14
15	R	R	7.9	2.2	1.5	2.5	1.3	0.5	0.0				15
16	E	E	6.9	2.0	1.5	2.5	1.3	0.7	0.0	F	F	F	16
17			5.5	2.2	1.5	2.5	1.5	0.9	0.0				17
18	C	C	4.9	1.9	1.6	2.6	1.5	1.1	0.0	L	L	L	18
19			4.8*	1.8	1.8	2.5	1.7	1.3	0.0				19
20	O	O	4.3	1.7	1.8*	2.5	1.4	0.8	0.0	O	O	O	20
21	R	R	4.1	1.5	1.7	2.5	2.0	0.6	0.0	W	W	W	21
22			3.8	1.5	1.6	2.5	1.9	0.6	0.0				22
23	D	D	3.8	1.2	1.5	2.6	1.3	0.6	0.0				23
24			3.8	1.2	1.7	2.9	1.2	0.5	0.0				24
25			3.8	1.1	1.7	2.9	1.2	0.5	0.0				25
26			4.3	1.0	1.5	98	1.2	0.7	0.0				26
27			4.4	0.9	1.6	28	1.3	1.0	0.0				27
28			4.2	0.8	1.8	6.2	1.2	1.4	0.0*				28
29			3.8	0.7		2.2	1.2	1.6	0.0				29
30			3.8	0.5		1.5	1.2	1.0	0.0				30
31			3.8	0.4		1.5		1.9					31
MONTHLY													
MEAN	NR	NR	NR	2.8	2.0	6.9	1.4	0.9	0.3	0.0	0.0	0.0	
MAX	NR	NR	NR	12	22	98	2.0	1.9	3.4	0.0	0.0	0.0	
MIN	NR	NR	NR	0.4	0.2	1.5	1.2	0.5	0.0	0.0	0.0	0.0	
ACFT	NR	NR	NR	170	110	427	84	58	16	0.0	0.0	0.0	
MEAN FLOW	INSTANTANEOUS	MAXIMUM FLOW,	1984-85				INSTANTANEOUS	MINIMUM FLOW,	1984-85				TOTAL
NR	DATE	TIME	FLOW	G.H.	DATE	TIME	DATE	TIME	FLOW	G.H.	ACRE FEET	NR	
	NR	March 26	2000	545	3.31**		NR						

REMARKS:

Station located 150 feet downstream from Wilder Rd bridge 2.5 miles southwest of Red Bluff. Tributary to Sacramento River.

Flow affected by upstream diversions.

Period of record for discharge is December 1, 1984 to date.
Period of record for gage height is same as discharge.

The datum for this station from 1984 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1984:

FLOW	GAGE	DATE	TIME
CFS	HEIGHT		
545	3.31	March 26, 1985	2000
AVERAGE/YEAR	Not available.		

** Maximum flow for the 1984-85 water year may have occurred in December during the period of no record.

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A03460 RED BANK CREEK NEAR RED BLUFF

LOCATION: LAT 40-05-25, LONG 122-24-45, T26N, R05W, SEC. 22M, MD B&M TEHAMA COUNTY

DRAINAGE AREA: 93.5 SQ MILES

HYDROLOGIC AREA: A-13.B0

WATER YEAR OCTOBER 1984 through SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1		NR	25	6.9	6.4	5.7	7.2	2.5	1.2				1
2		NR	62	7.1	6.4	5.7	6.6	2.4	0.8				2
3		NR	217	6.9	6.4	5.6	6.2	2.1	0.6				3
4		NR	78	7.1*	6.3	5.4	5.6	1.6	0.7				4
5		NR	146	7.3	6.3	5.5	5.4	1.4	0.9				5
6		NR	74	7.3	6.3	6.0	5.4	1.4	1.0				6
7		NR	39	10	6.5	8.9	5.3	1.4	0.9				7
8	N	NR	23	9.9	170	8.9	5.1	1.5	1.3	N	N	N	8
9		NR	16	8.6	93	7.0	4.9	1.7	1.3				9
10	O	NR	190	8.5	28	7.9	4.7	1.8	1.0	O	O	O	10
11		NR	61*	7.8	17	16	4.6	1.7	0.5				11
12		NR	31	7.5	13	10	4.4	1.7	0.5				12
13		NR	16	7.3	11	7.5	4.3	1.7	0.4				13
14		NR	12	7.3	9.2	6.7	4.2	1.6	0.2				14
15	R	NR	10	7.2	8.4	6.3	4.0	1.3*	0.0				15
16	E	NR	8.1	7.1	7.8	5.6	4.0	1.2	0.0	F	F	F	16
17		41	7.5	6.9	7.8	5.5	4.0	1.0	0.0				17
18	C	77	7.2	6.9	7.6	5.2	4.0	1.0	0.0	L	L	L	18
19		7.2	7.0	6.9	7.6	4.9	3.8	1.0	0.0				19
20	O	12	6.6	6.9	7.2*	4.8	3.6	0.9	0.0	O	O	O	20
21	R	6.3	6.4	6.8	7.1	4.4	4.0	1.0	0.0	W	W	W	21
22		3.7	6.3	6.6	6.9	4.3	4.2	1.1	0.0				22
23	D	3.0	6.3	6.6	6.8	4.1	3.9	0.8	0.0				23
24		230	6.4	6.6	6.5	4.2	3.5	0.8	0.0				24
25		36	6.4	6.5	6.4	4.2	3.4	0.9	0.0				25
26		8.3	7.1	6.5	6.2	17	3.3	1.0	0.0				26
27		215	7.1	6.4	5.9	36	3.1	1.3	0.0				27
28		283*	6.8	6.6	5.9	65	3.0	1.3	0.0*				28
29		146	6.6	6.6		31*	2.9	1.0	0.0				29
30		56	6.7	6.5		13	2.8	0.9	0.0				30
31			6.9	6.5		8.3		1.3					31

MONTHLY

MEAN	NR	NR	35.8	7.2	17.3	10.7	4.4	1.4	0.4	0.0	0.0	0.0
MAX	NR	NR	217	10	170	65	7.2	2.5	1.3	0.0	0.0	0.0
MIN	NR	NR	6.3	6.4	5.9	4.1	2.8	0.8	0.0	0.0	0.0	0.0
ACFT	NR	NR	2200	444	960	656	261	84	22	0	0	0

MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-5	INSTANTANEOUS	MINIMUM FLOW, 1984-5	TOTAL
FLOW	DATE	TIME	FLOW	G.H.	ACRE FEET
NR	November 27	1730	553	4.09 **	NR

REMARKS:

Station located on Briggs Rd bridge, 11 miles SW of Red Bluff. Tributary to Sacramento River.

Flow affected by upstream diversion.

Gage washed out 12/83, replaced 11/84 at same location and datum. However channel cross-section changed considerably.

Period of record for discharge is 1948 to 12/83, 11/84 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1956 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1948:

INSTANTANEOUS MAXIMUM	19900	GAGE	DATE	TIME
AVERAGE/YEAR	Not Available	HEIGHT	Mon Feb 28, 1983	2200
		12.44		

** The reported maximum flow for the 1984-85 water year may only be a secondary peak. Based on precipitation records, a higher peak (during the period of no record) may have occurred between November 11, 1984 to November 13, 1984.

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A44180 MILL CREEK NEAR MINERAL

LOCATION: LAT 40-21-44, LONG 121-30-16, T29N, R4E, SEC. 23 MD B&M

TEHAMA COUNTY

DRAINAGE AREA: NOT AVAILABLE

HYDROLOGIC AREA: A-15.C2

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1								NR	61	NR	30	27	1
2								NR	58	NR	29	29	2
3								NR	61	NR	29	26	3
4								173	62	NR	30	26	4
5								164	64	NR	27	24	5
6								158	118	NR	26	25	6
7								145	138	NR	27	36	7
8	N	N	N	N	N	N	N	127	145	NR	27	91	8
9								132	145	NR	28	52	9
10	O	O	O	O	O	O	O	99	142	NR	27	44	10
11								87	142	NR	28	39	11
12								118	142	34*	27	41	12
13								101	139	33	27	38	13
14								101	134	33	27	39	14
15	R	R	R	R	R	R	R	137	132	33	27	36	15
16	E	E	E	E	E	E	E	142	127	32	27	35	16
17								142	125	32	27	35	17
18	C	C	C	C	C	C	C	118	125	32	28	36	18
19								103	120	33	28	35	19
20	O	O	O	O	O	O	O	120	111	32	28	34	20
21	R	R	R	R	R	R	R	93	107	34	27	33	21
22								99	103	32	27	32	22
23	D	D	D	D	D	D	D	101	84	31	27	31	23
24								97	64	31	26	31	24
25								87	47	31	26	31	25
26								71	43	32	26	30	26
27								56	38	33	26	30	27
28								62	37	32	26*	30	28
29								65	40	31	26	30	29
30								64	35	31	26	31	30
31								62		29	27		31

MONTHLY

MEAN								NR	96.3	NR	27.2	35.2
MAX								NR	145	NR	30	91
MIN								NR	35	NR	26	24
ACFT								NR	5730	NR	1674	2097

MEAN FLOW NR	INSTANTANEOUS DATE	MAXIMUM FLOW TIME	1984-85 FLOW NR	1984-85 G.H.	INSTANTANEOUS DATE	MINIMUM FLOW TIME	1984-85 FLOW NR	1984-85 G.H.	TOTAL ACRE FEET NR
					September 5	0015	24	01.89	

REMARKS:

Located downstream from the Highway 36 Bridge about 10 miles east of Mineral. Tributary to Sacramento River.

Stage-discharge relationship affected by ice at times.

Station was installed May 4, 1985.

Period of record for discharge is May 4, 1985 to date.

Period of record for gage height is the same as discharge.

The datum for this station from 1985 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1985:

INSTANTANEOUS AVERAGE/YEAR	MAXIMUM	FLOW CFS NR	GAUGE HEIGHT	DATE	TIME
			Not available.		

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02700 SACRAMENTO RIVER AT VINA BRIDGE

LOCATION: LAT 39-54-36, LONG 122-05-36, T24N, R02W, SEC. 28, MD B&M TEHAMA COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-13.B0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	8540	8260	15700	10300	8060	6890	7450	8390	8090	12000	10400	7670	1
2	8500	8460	14700	9290	8060	6910	7640	8570	8150	12200	10400	7760	2
3	8460	9730	20700	8790	8100	6880	8050	8540	7950	12400	10500	7790	3
4	8580	9370	21800	8690	8030	6930	7850	8540	7860	12200	10700	7560	4
5	8660	8770	21000	8560	8040	7100	7600	8580	7240	12300	10500	7150	5
6	8620	8900	21000	8560	7950	7280	7540	8640	7450	12300	10300	6770	6
7	8460	9280	20200	8760	8230	8380	7400	8560	7770	12400	10500	6960	7
8	7880	10000	19800	9330	19800	9280	7170	8570	8840	12500	10500	8120	8
9	7390	10400	19400	9010	15700	8150	6770	8700	9290	12700	10400	9070	9
10	6990	9900	22500	9510	11200	8500	6550	8630	9200	12900	10500	8250	10
11	8380	16600	31100	9020	10100	9620	6490	8440	9140	12200	10500	6860	11
12	8230	22100	23300	8670	9510	8510	6500*	8200	8950	12300	10500	6650	12
13	7610	30300	20900	8370	8380	7920	6990	8090	8900	12300	10600	NR	13
14	7460	24400	20500*	8290	7480	6690	7690	9680	9200	12200	10500	NR	14
15	7330	21200	19400	8290	7230	6640*	7770	12400	9190	12700	10500	NR	15
16	7470	23500	18700	8130	7140	6630	7660	12500	9200	12800	10700	NR	16
17	7880	23200	17100	8300	7000	6610	7610	11000	9090	12700	10800	NR	17
18	7730	23500	16700	8230	6900	6620	7540	7350	9590	12800	10700	NR	18
19	7570	22300	16000	8500	7220	6580	7360	8020	9730	13000	9350	NR	19
20	7680	20900	15400	8480	7580	6570	7360	8140	9680	13000	9270	NR	20
21	7540	23700	14000	8380	7460	6550	8110	8000	9670	13300	9190	NR	21
22	6980	20400	13000	8310	7380*	6540	8160	7710	10000	12900	9170	NR	22
23	6850	19600	11200	8250	7300	6520	7990	7600	10200	12500	9000	NR	23
24	6850	38000	11200	8300	7230	6520	7530	7490	10300	12100	8040	NR	24
25	6760	28400	11000	8150*	7180	6540	7220	8290	10300	10800	7830E	NR	25
26	6810	22200	10900	8250	7060	6640	6920	8330	9760	10300	NR	NR	26
27	7610	20000	11000	8200	6980	8130	6980	8420	10800	10200	NR	NR	27
28	7640	35300	10700	8160	6810	8370	7630	8190	11900	10100	NR	NR	28
29	7800	22000	10600	8160		8130	7950	8250	11800	10200	NR	NR	29
30	7830*	17800*	10500	8150		7720	8010	7770	11900	10300	7590E	NR	30
31	7880		10500	8000		7460		7810		10200	7610		31

MONTHLY

MEAN	7741	18950	16790	8561	8540	7349	7450	8626	9371	12030	NR	NR
MAX	8660	38000	31100	10300	19800	9620	8160	12500	11900	13300	NR	NR
MIN	6760	8260	10500	8000	6810	6520	6490	7350	7240	10100	NR	NR
ACFT	476000	1128000	1032000	526400	474300	451900	443300	530400	557600	739400	NR	NR

MEAN FLOW	INSTANTANEOUS DATE	MAXIMUM FLOW	1984-85 TIME	1984-85 FLOW	INSTANTANEOUS DATE	MINIMUM FLOW	1984-85 TIME	1984-85 FLOW	TOTAL ACRE FEET
NR	November 24	1515	50800	76.12	April 10	1800	6470	65.18	NR

REMARKS:

Station located 250 feet above Vina-Corning Highway bridge, 2.6 miles southwest of Vina.

Flow regulated by Shasta Dam since December 30, 1943. Approximately 190,000 acre-feet diverted from the river between Keswick and Vina in addition to diversions from the tributaries. Transbasin diversions from the Trinity River Whiskeytown Reservoir via Judge Frances Carr Powerplant began in April 1963.

The maximum discharge is for the main river channel and does not include water by-passing the station on the left bank.

Period of record for discharge is April 1945 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1945 to present is 100.00, USED.

The datum for this station from 1945 to present is 97.15, USCGS.

FOR PERIOD OF RECORD BEGINNING 1945:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAUGE HEIGHT	DATE	TIME
	182000	91.27	March 1, 1983	1730
	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02630 SACRAMENTO RIVER AT HAMILTON CITY

LOCATION: LAT 39-45-06, LONG 121-59-48, T22N, R01W, SEC. 20, MD B&M BUTTE COUNTY

DRAINAGE AREA: 11,060 square miles (excluding Goose Lake Basin) HYDROLOGIC AREA: A-13.B0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	7660	7490	17100	10500	7890	6770	7500	6860	6270	9350	7800	5550	1
2	7700	7630	15700	9530	7900	6760	7660	7010	6200	9600	7930	5660	2
3	7640	8750	20700	8720	7860	6750	7970	7010	6200	9730	7890	5710	3
4	7740	8760	22000	8630	7860	6790	7820	6900	6030	9620	8120	5660	4
5	7840	8350	21400	8510	7840	6990	7460	6820	5600	9590	8070	5330	5
6	7760	8430	21500	8500	7810	7190	7330	6990	5490	9670	7740	5030	6
7	7760	8870	20700	8580	7970	7940	7270	6910	5710	9780	7930	5160	7
8	7220	9430	20300	9120	16400	9080	7080	6980	6410	9940	7850	5970	8
9	6800	10300	19800	8910	18200	8160	6570	7070	6970	10100	7750	7160	9
10	6380	9470	22500	9320	11800	8160	6410	7030	6930	10400	7920	6920	10
11	7230	14900	30600	8960	10100	9470	6180*	6960	6800	9640	7920	5650	11
12	7740	21700	24100*	8600	9500	8560	5940	6630	6530	9750	7950	5430	12
13	7030	28100	21600	8310	8540	8040	6270	6620	6460	9790	7910	5070	13
14	6800	25200	20800	8180	7580	6910*	6930	7330	6580	9690	7960	5080	14
15	6760	21500	20200	8220	7250	6530	7100	11000	6650	10200	7770	4720	15
16	6780	22200	19200	8090	7090	6520	6900	10900	6560	10200	8080	4690	16
17	7140	23800	18100	8170	6980	6520	6860	10400	6590	10200	8200	4730	17
18	7120	22700	17600	8110	6870	6440	6760	6180	6840	10200	8300	4160	18
19	6950	22500	17000	8310	6970	6430	6600	6590	7110	10500	7060	4350	19
20	6980	20600	16600	8330	7380	6390	6350	6570	7060	10500	6830	4570	20
21	6970	23500	14900	8250	7330	6260	7000	6450	7100	10800	6690	4530	21
22	6520	20800	14000	8150	7250	6050	7130	6150	7260	10700	6620	4130	22
23	6070	20000	11600	8160	7160	5850	6950	6090	7610	10400	6590	4030	23
24	6050	34600	11400	8150*	7120	5900	6510	5830	7740	9780	5910	3980	24
25	5910	31400	11200	8040	7070	6240	6150	6440	7720	8740	5530	4120	25
26	5870	23200	11100	8070	6960*	6270	5840	6610	7640	8000	5220	4410	26
27	6670	19400	11200	8080	6910	7900	5800	6670	7600	7800	5020	4460	27
28	6820	35400	10900	8040	6730	8130	6220	6560	9180	7630	5030	4540	28
29	6960	23700*	10700	8010		8140	6630	6530	9140	7740	5600	4580	29
30	7120	18900	10600	8020		7780	6540	6070	9330	7780	5560	4650	30
31	7130*		10600	7920		7610		6010		7790	5470		31

MONTHLY

MEAN	7004	18720	17280	8467	8440	7178	6791	7038	6977	9536	7104	5001
MAX	7840	35400	30600	10500	18200	9470	7970	11000	9330	10800	8300	7160
MIN	5870	7490	10600	7920	6730	5850	5800	5830	5490	7630	5020	3980
ACFT	430700	1114000	1063000	520600	468700	441400	40410	432700	415200	586300	436800	297600

MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-5	INSTANTANEOUS	MINIMUM FLOW, 1984-5	TOTAL
FLOW	DATE	TIME	CFS	G.H.	ACRE FEET
9131	November 24	2000	50000	38.39	September 25 0315 3800 28.29 6611100

REMARKS:

Station located at Gianella Bridge, State Highway 32, 1.0 mile northeast of Hamilton City.

Flow regulated by Shasta Dam since December 30, 1943. Approximately 950,000 acre-feet diverted from the river between Keswick and Hamilton City in addition to diversions from the tributaries. Transbasin diversions from the Trinity River Whiskeytown Reservoir via Judge Frances Carr Powerplant began in April 1963.

Prior to regulation by Shasta Lake, the Maximum discharge was 350,000 CFS at stage 22.60 ft on February 28, 1940. Zero of gage = 127.9, USED in 1940. The maximum discharges of record since February 1940, are for the main river channel and do not include water by-passing the station on the left bank. Period of record for discharge is Spring 1945 to date. Period of record for gage height is 1927 to date.

The datum for this station from 1927 to 1945 is 127.9, USED.

The datum for this station from 1945 to present is 100.0 USED and 96.5 USGS.

FOR PERIOD OF RECORD BEGINNING 1927:

	FLOW	GAGE	DATE	TIME
	CFS	HEIGHT		
INSTANTANEOUS MAXIMUM	176000	50.77	March 01, 1983	1845
AVERAGE/YEAR	Not Available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A04242 MUD CREEK NEAR CHICO

LOCATION: LAT 39-47-02, LONG 121-53-06, T22N, R01E, SEC. 05, MD B&M BUTTE COUNTY

DRAINAGE AREA: 47.5 SQ MILES HYDROLOGIC AREA: A-13.B0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	0.0	0.0	38	5.9	2.3	3.3*	24	0.2				0.0	1
2	0.0*	0.0	442	5.6	2.2	3.4	19*	0.0				0.0	2
3	0.0	1.3	132	5.4	2.0	2.8	15	0.0				0.0	3
4	0.0	0.8	53	5.4	2.1	2.9	12	0.0				0.0*	4
5	0.0*	0.2	37	5.2	1.9	8.7	9.0	0.0				0.0	5
6	0.0	0.5	25	5.4	1.9	12	7.1	0.0				0.0	6
7	0.0	0.8	17	19	12	62	5.6	0.0				0.0	7
8	0.0	22	13	17	323	24	4.7	0.0	N	N	N	30	8
9	0.0	9.1	11	11	107	14	3.9	0.0				3.4	9
10	5.1	8.6	94	9.9	58	77	3.4	0.0	O	O	O	2.4*	10
11	9.9	210	50	8.8	40	69	2.9	0.0				0.1	11
12	0.2	182	32	8.1	29	30	2.5	0.0				0.0	12
13	0.0	338	22	7.4	23	21	2.0	0.0				0.0	13
14	0.0	36	17	7.0	18	16	2.0	0.0				0.0	14
15	0.0	15*	175	6.9	15	13	1.7	0.0				0.0	15
16	4.6	121	144	6.3	16	11	1.8	0.0	F	F	F	0.0	16
17	5.3*	103	51	3.6	14	8.7	2.1	0.0				0.0	17
18	0.7	41	36	3.2*	12	12	1.8	0.0	L	L	L	0.0	18
19	0.3	107	26	3.0	11	9.6	1.5	0.0				0.0	19
20	0.0	42	21	2.9	7.6*	8.1	1.3	0.0	O	O	O	0.0	20
21	0.0	24	15*	2.5	6.1	6.2	1.5	0.0	W	W	W	0.0	21
22	0.0	20	12	2.4	5.2	5.0	1.6	0.0				0.0	22
23	0.0	188	11	2.4	4.5	4.4	1.1	0.0				0.0	23
24	0.0	68	10	4.6	4.0	8.1	0.8	0.0				0.0	24
25	0.0	35	9.4	2.9	4.1	13	0.6	0.0				0.0	25
26	0.0	25	8.6	2.2	4.0	227	0.5	0.0				0.0	26
27	0.0	18	8.2	2.4	3.5	150	0.4	0.0				0.0	27
28	0.0	885	7.5	2.6	3.3	75	0.3	0.0				0.0	28
29	0.0	164	6.6	2.9		50	0.2	0.0				0.0	29
30	0.0	72	6.5	2.6		36	0.1	0.0				0.0	30
31	0.0		6.2	2.1		29		0.0					31

MONTHLY												
MEAN	0.8	91.2	49.6	5.7	26.2	32.7	4.3	0.0	0.0	0.0	0.0	1.2
MAX	9.9	885	442	19	323	227	24	0.2	0.0	0.0	0.0	30
MIN	0.0	0.0	6.2	2.1	1.9	2.8	0.1	0.0	0.0	0.0	0.0	0.0
ACFT	52	5429	3049	350	1453	2008	259	0	0	0	0	71

MEAN FLOW	INSTANTANEOUS MAXIMUM FLOW, 1984-85				INSTANTANEOUS MINIMUM FLOW, 1984-85				TOTAL
	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	ACRE FEET
17.5	November 28	0830	2440	06.38	October 1	0015	0.0	00.36	12671

REMARKS:

Station located 0.1 miles above Business route 99 bridge, 4.9 miles north of Chico. Tributary to Sacramento River via Big Chico Creek. Includes an undetermined amount of water from Big Chico Creek.

Period of record for discharge is January 1964 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1964 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1964:

INSTANTANEOUS	MAXIMUM	FLOW	GAUGE	DATE	TIME
AVERAGE/YEAR		CFS	HEIGHT		
		11500	11.00	March 30, 1974	0400
		Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A00928 MUD CREEK DIVERSION AT CHICO
LOCATION: LAT 39-45-42, LONG 121-48-00, T22N, R02E, SEC. 18, MD B&M BUTTE COUNTY
DRAINAGE AREA: 8.3 SQ MILES HYDROLOGIC AREA: A-13.B0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY	
1													1	
2													2	
3													3	
4													4	
5													5	
6													6	
7													7	
8	N	N	N	N	N	N	N	N	N	N	N	N	8	
9													9	
10	O	O	O	O	O	O	O	O	O	O	O	O	10	
11													11	
12													12	
13													13	
14													14	
15													15	
16	F	F	F	F	F	F	F	F	F	F	F	F	16	
17													17	
18	L	L	L	L	L	L	L	L	L	L	L	L	18	
19													19	
20	O	O	O	O	O	O	O	O	O	O	O	O	20	
21	W	W	W	W	W	W	W	W	W	W	W	W	21	
22													22	
23													23	
24													24	
25													25	
26													26	
27													27	
28													28	
29													29	
30													30	
31													31	
MONTHLY														
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
ACFT	0	0	0	0	0	0	0	0	0	0	0	0		
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85						INSTANTANEOUS MINIMUM FLOW, 1984-85						TOTAL	
FLOW	DATE						DATE						ACRE FEET	
0.0	NR						October 1 0015 0.0 7.07						0	

REMARKS:

Station located 0.4 miles above Wildwood Avenue bridge, 4.0 miles northeast of Chico.

This flow is diverted from Lindo Channel into Mud Creek during periods of high water. Crest of diversion weir is at gage height 8.38.

Period of record for discharge is November 1964 to date (instantaneous maximum flow is based on the period of record with the 1968 peak flow missing). Period of record for gage height is November 1964 to date.

The datum for this station from 1964 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1964:

	FLOW	GAUGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	5000	12.37	March 30, 1974	0345
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A00615 LINDO CHANNEL NEAR CHICO

LOCATION: LAT 39-44-57, LONG 121-52-06, T22N, R01E, SEC. 21, MD B&M

BUTTE COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-13.B0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	0.0	0.0	8.7	0.0	0.1	0.0	24		0.0	NR	0.0	NR	1
2	0.0	0.0	12	0.0	0.1	0.0	26		0.0	NR	0.0	NR	2
3	0.0	0.0	8.6	0.0	0.1	0.0	17		0.0	0.0	0.0	NR	3
4	0.0	0.0	0.4	0.0	0.0	0.0	9.9		0.0	0.0	0.0	NR	4
5	0.0	0.0	0.0	0.0	0.0	1.0	4.6		0.0	0.0	0.0	0.0	5
6	0.0	0.0	0.0	0.0	0.0	0.7	1.4		0.0	0.0	0.0	0.0	6
7	0.0	0.0	0.0	0.0	0.1	1.1	0.2		0.0	0.0	0.0	0.0	7
8	0.0	0.0	0.0	0.0	682	0.0	0.0	N	0.0	0.0	0.0	8.8	8
9	0.0	0.0	0.0	0.0	222	0.0	0.0		0.0	0.0	0.0	0.1	9
10	4.8	0.0	2.0	0.0	68	0.7	0.0	O	0.0	0.0	0.0	0.1	10
11	0.0	8.8	0.0	0.0	26	0.0	0.0		0.0	0.0	0.0	0.1	11
12	0.0	33	0.0	0.0	11	0.0	0.0		0.0	0.0	0.0	0.1	12
13	0.0	184	0.0	0.0	5.0	0.0	0.0		0.0	0.0	0.0	0.1	13
14	0.0	47	0.0	0.0	1.7	0.0	0.0		0.0	0.0	0.0	0.1	14
15	0.0	4.2*	21	0.0	0.1	0.0	0.0		0.0	0.0	0.0	0.0	15
16	0.3	9.2	8.4	0.0	0.0	0.0	0.0	F	0.0	0.0	0.0	0.0	16
17	0.0	5.2	0.2	0.1	0.0	0.0	0.0		0.0	0.0	0.0	0.0	17
18	0.0	1.5	0.0	0.1	0.0	0.0	0.0	L	0.0	0.0	0.0	0.0	18
19	0.0	0.0	0.0	0.1	0.0	0.0	0.0		0.0	0.0	0.0	0.0	19
20	0.0	2.5	0.0	0.1	0.0	0.0	0.0	O	0.0	0.0	0.0	0.0	20
21	0.0	2.7	0.0	0.1	0.0	0.0	0.0	W	0.0	0.0	0.0	NR	21
22	0.0	0.0	0.0	0.1	0.0	0.0	0.0		0.0	0.0	0.0	NR	22
23	0.0	0.0	0.0	0.1	0.0	0.0	0.0		0.0	0.0	0.0	NR	23
24	0.0	133	0.0	0.1	0.0	0.0	0.0		0.0	0.0	NR	NR	24
25	0.0	61	0.0	0.1	0.0	0.0	0.0		0.0	0.0	NR	NR	25
26	0.0	14	0.0	0.1	0.0	11	0.0		0.0	0.0	NR	NR	26
27	0.0	76	0.0	0.1	0.0	10	0.0		0.0	0.0	NR	NR	27
28	0.0	264	0.0	0.1	0.0	9.1	0.0		NR	0.0	NR	NR	28
29	0.0	73	0.0	0.1		6.0*	0.0		NR	0.0	NR	NR	29
30	0.0	25	0.0	0.1		5.9	0.0		NR	0.0	NR	NR	30
31	0.0		0.0	0.1		12				0.0	NR		31
MONTHLY													
MEAN	0.2	31.5	2.0	0.0	36.3	1.9	2.8	0.0	NR	NR	NR	NR	
MAX	4.8	264	21	0.1	682	12	26	0.0	NR	NR	NR	NR	
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NR	NR	NR	NR	
ACFT	10	1873	122	3	2016	114	165	0	NR	NR	NR	NR	

MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-85	INSTANTANEOUS	MINIMUM FLOW, 1984-85	TOTAL
FLOW	DATE	TIME FLOW G.H.	DATE	TIME FLOW G.H.	ACRE FEET
NR	February 08	0930 1580 6.32	October 1	0015 0.0 0.51	NR

REMARKS:

Station located at the right abutment of the Cossick Avenue bridge, 2.25 miles northwest of Chico Post Office. Tributary to Sacramento River via Big Chico Creek.

Flow affected by upstream diversion.

Station A00600 was destroyed on December 5, 1972. Station A00615 was constructed about 3.25 miles upstream on December 20, 1972.

Period of record for discharge is December 1972 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1972 to present is 170.00, USED.

FOR PERIOD OF RECORD BEGINNING 1972:

	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM**	3840	9.77	March 29, 1974	1830
AVERAGE/YEAR	Not available.			

** Instantaneous maximum gage height was recorded on March 1, 1983 (0545) as 10.40 feet with a calculated flow of 3830 cfs.

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A04280 LITTLE CHICO CREEK NEAR CHICO
LOCATION: LAT 39-44-06, LONG 121-46-06, T22N, R02E, SEC. 29, MD B&M BUTTE COUNTY
DRAINAGE AREA: 25.4 SQ MILES HYDROLOGIC AREA: A-07.D0

WATER YEAR	OCT	OCTOBER	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY	
1	2.8	1.3	23	6.9	4.7	7.1*	28	3.0	1.3				0.0	1	
2	1.2	5.4	22	6.7	4.7	6.9	23*	2.8	1.4				0.0	2	
3	1.0	5.2	35	6.4	4.7	6.3	19	2.6	1.3				0.0	3	
4	1.1	2.0	23	6.1	4.8	6.5	16	2.6	0.9				0.0*	4	
5	1.3*	1.6	21	5.8	4.7	7.3	13	2.5	1.0				0.0	5	
6	1.1	2.2	16	5.8	4.7	9.9	12	2.4	0.7				0.0	6	
7	0.8	2.2	13	14	33	39	9.8	2.5	0.4				0.0	7	
8	0.7	15	12	12	241	20	9.5	2.3	0.5	N	N		9.8	8	
9	0.7	6.6	11	9.8	83	15	8.2	2.3	0.3				13	9	
10	1.9	3.3	30	8.6	48	29	7.5	2.4	0.2	O	O		5.5*	10	
11	10	53	31	8.1	37	28	6.8	3.0	0.1				2.1	11	
12	3.2	44	26	7.7	30	22	6.2	2.8	0.0				1.1	12	
13	1.8	71	22	7.3	25	17	5.5	2.6	0.1				0.7	13	
14	1.6	24*	18	7.1	22	15	5.0	2.2	0.0				0.7	14	
15	1.5	12	67	7.1	19	13	4.7	2.1	0.0				0.7	15	
16	3.7	33	59	6.4	17	12	4.7	2.0*	0.0	F	F		0.6	16	
17	6.3	25	38	6.4	15	10	5.0	2.2	0.0				0.7	17	
18	3.0	29	31	6.4*	13	13	4.8	2.3	0.0	L	L		1.0	18	
19	2.5	16	25	5.9	12	11	5.0	2.1	0.0				0.8	19	
20	2.3	30	20	5.8	12*	9.0	4.7	1.8	0.0	O	O		0.8	20	
21	2.1	37	16*	5.8	11	8.1	5.0	1.5	0.0	W	W		0.8	21	
22	1.8	20	14	5.6	9.8	7.1	4.9	1.3	0.0				0.7	22	
23	1.5	13	12	5.2	8.8	6.4	4.4	1.1	0.0				0.5	23	
24	1.5	153	12	5.2	8.2	10	3.9	1.1	0.0				0.5	24	
25	1.3	44	11	5.2	8.2	12	3.5	1.1	0.0				0.4	25	
26	1.2	27	10	5.6	7.5	73	3.4	1.2	0.0				0.5	26	
27	1.5	116	9.2	5.2	7.7	84	3.3	1.4	0.0				0.6	27	
28	1.4	80	9.0	5.7	7.1	67	3.0	1.5	0.0				1.0	28	
29	2.0	42	8.4	5.4		49	2.8	1.6	0.0				1.2	29	
30	2.3	31	7.7	5.2		39	3.0	1.4	0.0				1.5	30	
31	1.7		7.4	4.8		33		1.3						31	
MONTHLY															
MEAN	2.2	31.5	21.3	6.7	25.1	22.1	7.9	2.0	0.3	0.0	0.0	0.0	1.5		
MAX	10	153	67	14	241	84	28	3.0	1.4	0.0	0.0	0.0	13		
MIN	0.7	1.3	7.4	4.8	4.7	6.3	2.8	1.1	0.0	0.0	0.0	0.0	0.0		
ACFT	132	1874	1308	415	1396	1360	467	125	16	0	0	0	90		
MEAN FLOW															
9.9	INSTANTANEOUS				MAXIMUM FLOW, 1984-85			INSTANTANEOUS				MINIMUM FLOW, 1984-85			TOTAL
	DATE		TIME		FLOW		G.H.		DATE		TIME		FLOW		ACRE FEET
	February 08		0815		478		2.93		June 12		0200		0.0		7183

REMARKS:

Station located above diversion dam 500 feet south of Stilson Road, 3.6 miles east of Chico.
Tributary to Sacramento River.

During periods of high water, flow is diverted via Little Chico Diversion, into Butte Creek.
Discharge listed does not include this diversion.

Period of record for discharge is January 1959 to date.
Period of record for gage height is December 1958 to date.

The datum for this station from 1958 to present is 296.00, USED.

FOR PERIOD OF RECORD BEGINNING 1958:

INSTANTANEOUS MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR	CFS	HEIGHT	December 21, 1964	1840
	1790E	7.17		
	Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A04910 LITTLE CHICO CREEK DIVERSION NEAR CHICO
LOCATION: LAT 39-44-00, LONG 121-46-18, T22N, R02E, SEC. 29, MD B&M BUTTE COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.D0

WATER YEAR	OCTOBER	1984	through	SEPTEMBER	1985								
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8	N	N	N	N	N	N	N	N	N	N	N	N	8
9													9
10	O	O	O	O	O	O	O	O	O	O	O	O	10
11													11
12													12
13													13
14													14
15													15
16	F	F	F	F	F	F	F	F	F	F	F	F	16
17													17
18	L	L	L	L	L	L	L	L	L	L	L	L	18
19													19
20	O	O	O	O	O	O	O	O	O	O	O	O	20
21	W	W	W	W	W	W	W	W	W	W	W	W	21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

MONTHLY													
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACFT	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85						INSTANTANEOUS MINIMUM FLOW, 1984-85				TOTAL		
FLOW	DATE	TIME	FLOW	G.H.			DATE	TIME	FLOW	G.H.	ACRE	FEET	
0.0			Not applicable				OCTOBER 01	0015	0.0	1.77		0	

REMARKS:

See Little Chico Creek near Chico for records of stage and location.

This is flow diverted from Little Chico Creek, into Butte Creek during periods of high water.

Period of record for discharge is January 1959 to date.

Period of record for gage height is same as discharge.

The datum for this station is 296.00, USED.

FOR PERIOD OF RECORD BEGINNING 1958:

	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	2450	3.99	March 29, 1974	2015
AVERAGE/YEAR	Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A04250 BIG CHICO CREEK AT CHICO

LOCATION: LAT 39-43-30, LONG 121-52-06, T22N, R01E, SEC. 27, MD B&M BUTTE COUNTY

DRAINAGE AREA: Not available HYDROLOGIC AREA: A-13.B0

WATER YEAR	OCT	OCTOBER	1984 through	SEPTEMBER 1985											
DAY			DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY		
1	19	NR	122	44	33	45*	155	28	14	2.5	4.8	2.8	1		
2	16	NR	107	43	33	44	154*	28	15	2.3	2.0	3.6	2		
3	15	NR	108	42	33	43	140	27	15	3.5	2.7	11	3		
4	14	NR	91	41	33	44	124	27	14	3.3	2.3	5.9	4		
5	14*	NR	85	39	33	51	112	26	13	2.1	1.9	6.0	5		
6	14	NR	76	39	32	53	101	26	12	1.8	1.9	6.3	6		
7	NR	NR	69	52	47	79	91	25	11	1.5	1.8	7.8	7		
8	NR	NR	64	60	506	64	82	24	11	1.6	3.5*	44	8		
9	NR	NR	59	52	333	59	75	24	11	1.4	0.2	57	9		
10	NR	NR	79	45	202	78	71	23	9.3	1.4	1.0	41*	10		
11	NR	NR	102	43	152	89	67	23	9.1	3.0	0.9	27	11		
12	NR	NR	105	42	126	94	60	22	7.8	2.6	1.2	20	12		
13	NR	NR	97	40	112	95	55	21	7.8	1.5	1.7	17	13		
14	NR	NR	87	39	102	94	52	21	5.8	1.1	1.9	15	14		
15	NR	59*	114	39	96	92	49	21	5.9	1.1*	3.7	14	15		
16	NR	116	109	38	91	87	48	21*	5.3	1.1	1.1	13	16		
17	NR	113	88	37	86	83	47	20	5.2	1.0	2.4	13	17		
18	NR	111	81	36*	81	83	46	20	5.0	2.9	3.9	13	18		
19	NR	98	74	35	76	79	46	19	4.8	0.6	3.7	12	19		
20	NR	100	69	35	72*	73	43	18	6.3	1.1	3.4	12	20		
21	NR	118	64*	34	67	69	43	17	4.3	2.1	3.1	11	21		
22	NR	96	60	33	62	65	43	16	4.9	3.3	4.5	10	22		
23	NR	82	56	33	58	61	39	13	5.0	3.2	1.1	9.9	23		
24	NR	250	54	32	54	72	37	15	4.7	1.8	2.2	9.6	24		
25	NR	196	55	32	53	86	35	15	4.0	3.0	1.9	9.2	25		
26	NR	134	54	33	51	114	34	14	3.5	0.7	2.0	8.7	26		
27	NR	185	53	33	48	127	33	13	4.7	1.6	1.9	9.2	27		
28	NR	366	51	35	47	131	32	14	3.5	1.9	1.7	10	28		
29	NR	212	48	37	121	31	16	2.9	1.9	4.0	10	29			
30	NR	152	46	34	123	29	17	1.9	2.8	3.2	9.5	30			
31	NR		44	33	137		15		3.1	3.1			31		
MONTHLY															
MEAN	NR	NR	76.5	39.0	97.1	81.8	65.8	20.3	7.6	2.0	2.4	14.6			
MAX	NR	NR	122	60	506	137	155	28	15	3.5	4.8	57			
MIN	NR	NR	44	32	32	43	29	13	1.9	0.6	0.2	2.8			
ACFT	NR	NR	4703	2400	5393	5028	3915	1248	452	125	148	870			
MEAN	INSTANTANEOUS	MAXIMUM FLOW,	1984-85	INSTANTANEOUS	MINIMUM FLOW,	1984-85	TOTAL								
FLOW	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	ACRE FEET						
NR	February 08	1045	781	7.26	July 03	1700	0.0	3.41	NR						

REMARKS:

Station located 50 feet above Rose Avenue Highway bridge, immediately west of Chico.
Tributary to Sacramento River.

Flow affected by upstream diversion.

Period of record for discharge is January 1956 to date (instantaneous maximum flow available from October 1961 to date). Period of record for gage height is January 1956 to date.

The datum for this station from 1956 to present is 167.88, USED.

FOR PERIOD OF RECORD BEGINNING 1962:

			FLOW	GAUGE		
			CFS	HEIGHT	DATE	TIME
INSTANTANEOUS	MAXIMUM		2520E	12.83	January 31, 1963	2110
AVERAGE/YEAR			Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02570 SACRAMENTO RIVER AT ORD FERRY

LOCATION: LAT 39-37-42, LONG 121-59-30, T21N, R01W, SEC. 19, MD B&M GLENN COUNTY

DRAINAGE AREA: 12480 square miles (excluding Goose Lake Basin) HYDROLOGIC AREA: A-07.D0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	7840	7700	19600	11100	8280	7020	7980	7000	6440	9470	8090	5790	1
2	7980	7810	17800	10500	8330	7000	8050	7230	6420	9640	8180	5890	2
3	7900	8740	22000	9540	8260	7030	8300	7270	6510	9790	8220	5950	3
4	7930	9150	24000	9360	8240	7080	8270	7180	6280	9790	8390	5990	4
5	8050	8760	22900	9200	8210	7290	7940	7130	5980	9700	8410	5680	5
6	8030	8770	22400	9150	8190	7530	7760	7240	5650	9810	8150	5410	6
7	8070	9040	21500	9180	8290	8040	7630	7190	5940	9850	8220	5380	7
8	7590	9610	20900	9620	13700	9200	7530	7210	6360	10100	8180	6040	8
9	7190	10600	20200	9610	20400	8680	7060	7290	7110	10200	8110	7370	9
10	6780	10000	22300	9750	12700	8420	6780	7320	7130	10400	8240	7590	10
11	7170	13100	30200	9650	10800	9890	6630*	7320	6970	9940	8220	6250	11
12	8150	21100	26000	9310	10000	9250	6300	6960	6730	9920	8290	5910	12
13	7370	26500	22700*	8900	9270	8650	6510	6910	6650	9920	8240	5540	13
14	7100	26700	21700	8770	8220	7670*	7110	6870	6670	9920	8350	5490	14
15	7040	22100	21600	8780	7740	7090	7370	10600	6840	10200	8150	5220	15
16	7030	21400	20500	8680	7530	7060	7230	10700	6720	10300	8370	5030	16
17	7390	24600	19400	8620	7400	7000	7220	10900	6830	10500	8560	5140	17
18	7440	22400	18200	8720	7260	6910	7080	7060	6890	10300	8720	4650	18
19	7280	23100	17400	8770	7200	6920	6930	6870	7300	10600	7730	4580	19
20	7230	20700	17000	8830	7620	6840	6670	6870	7230	10600	7200	4890	20
21	7240	23600	15500	8780	7610	6710	7120	6780	7300	10800	7100	4880	21
22	6970	21200	14700	8660	7520	6510	7390	6490	7350	10900	6920	4570	22
23	6450	20100	12800	8650	7400	6310	7320	6420	7750	10700	6970	4330	23
24	6300	30900	12300	8620	7390	6300	6870	6170	7910	9950	6390	4330	24
25	6210	36800	12100	8580	7280	6570	6540	6510	7880	9330	5920	4350	25
26	6170	24400	11800	8480	7170*	6710	6190	6820	8060	8320	5600	4690	26
27	6740	20000	11800	8520	7130	8420	6100	6840	7440	8090	5400	4730	27
28	7070	34600	11700	8490	7000	8500	6420	6820	9110	7920	5250	4790	28
29	7170	17100	11400	8420*		8620	6830	6780	9210	8040	5740	4860	29
30	7380	16100*	11300	8430		8340	6760	6390	9420	8130	5880	4980	30
31	7420*		11200	8360		8090		6270		8100	5750		31

MONTHLY

MEAN	7280	18560	18220	9033	8791	7602	7130	7271	7136	9717	7450	5343
MAX	8150	36800	30200	11100	20400	9890	8300	10900	9420	10900	8720	7590
MIN	6170	7700	11200	8360	7000	6300	6100	6170	5650	7920	5250	4330
ACFT	447600	104000	1120000	555400	488200	467400	424200	447100	424600	597500	458100	318000

MEAN FLOW	INSTANTANEOUS DATE	MAXIMUM TIME	FLOW FLOW	1984-5 G.H.	INSTANTANEOUS DATE	MINIMUM TIME	FLOW FLOW	9184-5 G.H.	TOTAL ACRE FEET
9466	November 25	0015	50100	57.08	September 25	0815	4150	45.63	6852100

REMARKS:

Station located 0.1 miles below Ord Ferry.

Flow regulated by Shasta Dam since December 30, 1943. Approximately 980,000 acre-feet diverted from the river between Keswick and Ord Ferry in addition to diversions from the tributaries. Transbasin diversions from the Trinity River Whiskeytown Reservoir via Judge Frances Carr Powerplant began in April 1963.

Period of record for discharge is January 1948 to date. Period of record for gage height is 1921 to May 1927 (flood season only), February 1937 to May 1937, October 1937 to May 1939, November 1939 to May 1941, November 1941 to date.

The datum for this station from 1937 to 1960 is 0.00, USED.
The datum for this station from 1960 to present is 50.00, USED.

FOR PERIOD OF RECORD BEGINNING 1921:

	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM **	151000	69.19	March 2, 1983	0715
AVERAGE/YEAR	Not available			

** Prior to regulation by Shasta Lake, the maximum discharge was 370,000 CFS at stage 121.70 ft on February 28, 1940. Records of flows in excess of 70,000 CFS are not reliable due to an undetermined amount of water by-passing the station via Butte Basin.

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02986 MOULTON WEIR SPILL TO BUTTE BASIN NEAR COLUSA
LOCATION: LAT 39-20-18, LONG 122-01-18, T17N, R02W, SEC. 12, MD B&M COLUSA COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.D0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8	N	N	N	N	N	N	N	N	N	N	N	N	8
9													9
10	O	O	O	O	O	O	O	O	O	O	O	O	10
11													11
12													12
13													13
14													14
15													15
16	F	F	F	F	F	F	F	F	F	F	F	F	16
17													17
18	L	L	L	L	L	L	L	L	L	L	L	L	18
19													19
20	O	O	O	O	O	O	O	O	O	O	O	O	20
21	W	W	W	W	W	W	W	W	W	W	W	W	21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MONTHLY													
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ACFT	0	0	0	0	0	0	0	0	0	0	0	0	
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85						INSTANTANEOUS MINIMUM FLOW, 1984-85					TOTAL	
FLOW	DATE	TIME		FLOW	G.H.		DATE	TIME	FLOW	G.H.	ACRE FEET		
0.0		Not Applicable					October 01	0015	0.0	72.69	0		

REMARKS:

Station located west of south end of weir, 4.6 miles south of Princeton.

Elevation of weir crest is 76.75 feet USED datum; length of crest is 500 feet.

Period of record for discharge is January 1940 to date (flood season only).

Gage height records are available as station A02445, Sacramento River at Moulton Weir.

The datum for this station from 1935 to present is 0.00, USED.

FOR PERIOD OF RECORD BEGINNING 1940:

	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	37300	83.71	March 02, 1983	2045
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02981 COLUSA WEIR SPILL BUTTE BASIN
LOCATION: LAT 39-14-12, LONG 121-59-38, T16N, R01W, SEC. 17, MD B&M COLUSA COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.D0

WATER YEAR	OCTOBER	1984	through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY	
1		0.0											1	
2		0.0											2	
3		0.0											3	
4		0.0											4	
5		0.0											5	
6		0.0											6	
7		0.0											7	
8	N	0.0	N	N	N	N	N	N	N	N	N	N	8	
9		0.0											9	
10	O	0.0	O	O	O	O	O	O	O	O	O	O	10	
11		0.0											11	
12		0.0											12	
13		0.0											13	
14		0.0											14	
15		0.0											15	
16	F	0.0	F	F	F	F	F	F	F	F	F	F	16	
17		0.0											17	
18	L	0.0	L	L	L	L	L	L	L	L	L	L	18	
19		0.0											19	
20	O	0.0	O	O	O	O	O	O	O	O	O	O	20	
21	W	0.0	W	W	W	W	W	W	W	W	W	W	21	
22		0.0											22	
23		0.0											23	
24		0.0											24	
25		5190											25	
26		240											26	
27		0.0											27	
28		3.0											28	
29		1320											29	
30		0.0											30	
31													31	
MONTHLY														
MEAN	0.0	225	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MAX	0.0	5190	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
ACFT	0	13390	0	0	0	0	0	0	0	0	0	0		

MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85	INSTANTANEOUS MINIMUM FLOW, 1984-85	TOTAL
FLOW	DATE	TIME	FLOW
18.5	November 25	1245	9230
		63.41	
	October 1	0015	0.0
			60.38
			13390

REMARKS:

Station located at north end of weir, 2.0 miles north of Colusa.
Elevation of weir crest is 61.80 ft USED datum; length of crest is 1,650 feet.
Riparian growth and channel improvements were made in front of weir March 1982.
Period of record for discharge is January 1940 to date.
Gage height records are available as station A02430, Sacramento River at Colusa Weir.
Highest stage recorded beginning 1940 was 70.6 feet on March 1, 1940.
The datum for this station from 1935 to present is 0.0, USED.

FOR PERIOD OF RECORD BEGINNING 1940:

	FLOW	GAGE	DATE	TIME
	CFS	HEIGHT		
INSTANTANEOUS MAXIMUM	72200	68.96	March 04, 1983	0530
AVERAGE/YEAR	Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02967 BUTTE SLOUGH at OUTFALL GATES
LOCATION: LAT 39-11-44, LONG 121-56-04, T16N, R1E, SEC. 35, MD B&M SUTTER COUNTY
DRAINAGE AREA: Not Available HYDROLOGIC AREA: A-07.D0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY	
1													1	
2													2	
3													3	
4													4	
5													5	
6													6	
7													7	
8													8	
9													9	
10													10	
11													11	
12													12	
13													13	
14													14	
15													15	
NO RECORD														
16													16	
17													17	
18													18	
19													19	
20													20	
21													21	
22													22	
23													23	
24													24	
25													25	
26													26	
27													27	
28													28	
29													29	
30													30	
31													31	

MONTHLY
MEAN
MAX
MIN
ACFT

MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-85	INSTANTANEOUS	MINIMUM FLOW, 1984-85	TOTAL
FLOW	DATE	TIME FLOW G.H.	DATE	TIME FLOW G.H.	ACRE FEET
NR		NR		NR	NR

REMARKS:

Station located 4 miles east of Colusa, 3.7 miles north of Meridian. Tributary to the Sacramento River.

Flow regulated by gravity culverts. During the summer months these flows, together with the flow of Butte Slough near Meridian (A02972), and Wadsworth Canal near Sutter (A05929) are made up almost entirely of return waters from lands irrigated by Feather River diversions. Headwalls on the culverts were rebuilt on October 17, 1985.

Period of record for discharge is June 1923 to October 1938 (irrigation season only), January 1939 to date. Period of record for gage height is June 1924 to date.

The datum for this station is 0.00 feet, USED.

FOR PERIOD OF RECORD BEGINNING 1939:

	GAGE	DATE	TIME
INSTANTANEOUS	HEIGHT		
MAXIMUM			
AVERAGE/YEAR			
	Not available.		
	Not available		

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02960 TISDALE WEIR SPILL TO SUTTER BYPASS
LOCATION: LAT 39-01-36, LONG 121-49-16, T14N, R01E, SEC. 35, MD B&M SUTTER COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.A0

WATER DAY	YEAR OCT	OCTOBER NOV	1984 through DEC	SEPTEMBER JAN	1985 FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1		0.0	0.0										1
2		0.0	0.0										2
3		0.0	0.0										3
4		0.0	0.0										4
5		0.0	28										5
6		0.0	0.0										6
7		0.0	0.0										7
8	N	0.0	0.0	N	N	N	N	N	N	N	N	N	8
9		0.0	0.0										9
10	O	0.0	0.0	O	O	O	O	O	O	O	O	O	10
11		0.0	158										11
12		0.0	4080										12
13		0.0	2250										13
14		1300	188										14
15		1180	0.0										15
16	F	1.0	0.0	F	F	F	F	F	F	F	F	F	16
17		1.0	0.0										17
18	L	85	0.0	L	L	L	L	L	L	L	L	L	18
19		0.0	0.0										19
20	O	0.0	0.0	O	O	O	O	O	O	O	O	O	20
21	W	0.0	0.0	W	W	W	W	W	W	W	W	W	21
22		0.0	0.0										22
23		0.0	0.0										23
24		0.0	0.0										24
25		4960	0.0										25
26		5400	0.0										26
27		1320	0.0										27
28		440	0.0										28
29		5780	0.0										29
30		2240	0.0										30
31			0.0										31
MONTHLY													
MEAN	0.0	757	216	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MAX	0.0	5780	4080	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ACFT	0	45040	13300	0	0	0	0	0	0	0	0	0	
MEAN FLOW	80.6	INSTANTANEOUS DATE	MAXIMUM FLOW, 1984-85 TIME	FLOW G.H.	INSTANTANEOUS DATE	MINIMUM FLOW, 1984-85 TIME	FLOW G.H.	TOTAL ACRE FEET					
			NR			NR		58340					

REMARKS:

Station located west of north end of weir, 5.0 miles southeast of Grimes.

See Sacramento River at Tisdale Weir for stage records. Weir crest elevation is 45.45' USED datum and length of crest is 1,155 feet.

Backwater from Sutter Bypass at times affects the stage-discharge relationship.

Period of record for discharge is January 1940 to date (flood season only).

Period of record for gage height is January 1935 to date (flood season only).

FOR PERIOD OF RECORD BEGINNING 1940:

INSTANTANEOUS MAXIMUM	FLOW CFS	GAUGE HEIGHT	DATE	TIME
	25700	53.3	March 1, 1940	NR

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02933 RECLAMATION DISTRICT 108 DRAIN TO SACRAMENTO RIVER
LOCATION: LAT 38-51-48, LONG 121-47-30, T12N, R02E, SEC. 30, MD B&M YOLO COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.A0

WATER YEAR OCTOBER 1984 through SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

RECORDS SUFFICIENT TO COMPLETE ONLY MONTHLY FLOWS

MONTHLY													
MEAN	24.4	74.2	81.3	46.1	39.7	52.2	34.5	129	120	120	152	107	
MAX													
MIN													
ACFT	1498	4417	4999	2834	2204	3208	2055	7923	7137	7369	9363	6369	
MEAN FLOW	INSTANTANEOUS	MAXIMUM FLOW, 1984-5					INSTANTANEOUS	MINIMUM FLOW, 1984-5				TOTAL	
82.0	DATE	TIME	FLOW	G.H.			DATE	TIME	FLOW	G.H.		ACRE FEET	
		NR						NR				59,380	

REMARKS:

Plant located 4.5 miles east of Robbins.

This is drainage returned by pumping.

Period of record for discharge is April 1924 to October 1938 (irrigation season only) and January 1939 to date. Records for gage height are not available.

FOR PERIOD OF RECORD BEGINNING 1939:
FLOW GAGE
CFS HEIGHT DATE TIME
INSTANTANEOUS MAXIMUM No Record.
AVERAGE/YEAR Not Available.

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02965 RECLAMATION DISTRICT 70 DRAIN TO SACRAMENTO RIVER
LOCATION: LAT 39-04-08, LONG 121-51-43, T14N, R1E, SEC 16, MD B&M SUTTER COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.A0

WATER YEAR	OCTOBER 1984	through	SEPTEMBER 1985										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1		0.0	32	0.0		0.0	0.0	0.0	0.0	46	42	37	1
2		0.0	35	0.0		0.0	0.0	0.0	0.0	45	39	35	2
3		0.0	36	23		6.0	0.0	0.0	0.0	57	22	25	3
4		0.0	35	39		6.0	21	0.0	0.0	53	16	27	4
5		0.0	34	16		7.0	20	0.0	0.0	45	30	28	5
6		0.0	33	0.0		7.0	21	0.0	39	42	41	29	6
7		0.0	33	26		7.0	23	41	38	44	41	30	7
8	N	0.0	34	39	N	5.0	25	77	37	41	41	41	8
9		0.0	34	39		0.0	26	42	35	36	36	38	9
10	O	0.0	34	38	O	0.0	30	33	18	29	37	47	10
11		0.0	34	0.0		0.0	33	53	18	26	40	30	11
12		0.0	31	0.0		0.0	35	15	19	29	40	31	12
13		0.0	31	0.0		0.0	36	27	40	32	39	33	13
14		0.0	12	0.0		0.0	37	35	59	34	39	23	14
15	R	0.0	0.0	0.0		0.0	56	17	57	34	41	3.0	15
16	E	0.0	0.0	0.0	F	0.0	53	16	20	43	42	0.0	16
17		9.0	18	0.0		0.0	30	12	20	38	41	6.0	17
18	C	15	36	0.0	L	0.0	30	0.0	20	36	53	6.0	18
19		25	35	0.0		0.0	15	18	10	38	53	9.0	19
20	O	19	14	0.0	O	0.0	16	0.0	10	32	40	9.0	20
21	R	17	22	0.0	W	0.0	18	16	0.0	32	29	9.0	21
22		0.0	37	0.0		0.0	36	37	10	63	32	12	22
23	D	24	37	0.0		0.0	0.0	57	20	69	33	6.0	23
24		19	13	0.0		0.0	0.0	0.0	19	64	33	20	24
25		30	0.0	0.0		0.0	37	31	37	25	33	4.0	25
26		30	0.0	0.0		0.0	39	0.0	51	14	17	2.0	26
27		31	0.0	0.0		0.0	39	53	45	42	20	4.0	27
28		47	0.0	0.0		0.0	21	32	53	38	39	4.0	28
29		30	0.0	0.0		0.0	21	0.0	59	38	40	2.0	29
30		32	0.0	0.0		0.0	0.0	0.0	49	24	40	8.0	30
31			0.0	0.0		0.0		32		26	39		31
MONTHLY													
MEAN	NR	10.9	21.3	7.1	0.0	1.2	23.9	20.8	26.1	39.2	36.4	18.6	
MAX	NR	47	37	39	0.0	7.0	56	77	59	69	53	47	
MIN	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	16	0.0	
ACFT	NR	651	1309	436	0	75	1424	1277	1553	2410	2237	1107	
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85					INSTANTANEOUS MINIMUM FLOW, 1984-85					TOTAL		
FLOW	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	ACRE FEET				
NR		NR				NR			NR				

REMARKS:

Plant located 1.7 miles east of Grimes.

This is drainage returned by pumping and gravity. Plant also discharges additional measured flows to irrigation canals.

Period of record for discharge is May 1924 to October 1938 (irrigation season only), January 1939 to date.

FOR PERIOD OF RECORD BEGINNING 1939:

	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	Not available.			
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02955 RECLAMATION DISTRICT 787 DRAIN TO SACRAMENTO RIVER
LOCATION: LAT 38-50-48, LONG 121-43-48, T12N, R02E, SEC. 34, MD B&M YOLO COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.A0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1984 through													
SEPTEMBER 1985													
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
RECORDS SUFFICIENT TO COMPLETE ONLY MONTHLY FLOWS													
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MONTHLY													
MEAN	0.3	10.4	15.0	4.3	3.8	2.3	8.6	18.0	29.9	22.6	31.5	13.3	
MAX													
MIN													
ACFT	19	619	924	262	210	144	512	1110	1780	1390	1940	794	
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85						INSTANTANEOUS MINIMUM FLOW, 1984-85						TOTAL
FLOW	DATE						DATE						ACRE FEET
13.4	NR						NR						9704

REMARKS:

Plant located 2.1 miles southwest of Robbins.

This is drainage returned by pumping. Daily distribution of flow is not available since the plant operates on an automatic float switch.

Period of record for discharge is May 1949 to date.

Records for gage height are not available.

FOR PERIOD OF RECORD BEGINNING 1949:

	FLOW CFS	GAUGE HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	No record.			
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02976 COLUSA BASIN DRAIN AT HIGHWAY 20

LOCATION: LAT 39-11-42, LONG 122-03-36, T16N, R02W, SEC. 34, MD R&M COLUSA COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07.B1

WATER YEAR DAY	OCT	OCTOBER NOV	1984 through DEC	JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	429	455	987	236	163	235	214	376	1260	1040	1340	1650	1
2	410	468	851	233	148	221	304	409	1160	1070	1370	1670	2
3	370	433	1410	206	147	198	239	396	1050	1070	1350	1740	3
4	353	397	1700	188	142	188	221	464	969	1140	1350	1850	4
5	360	392	1490	157	134	169	212	511	936	1170	1320	1860	5
6	433	396	1260	157	135	199	232	560	888	1160	1320	1860	6
7	440	443	980	201	136	251	271	652	734	1150	1320	1880	7
8	446	519	803	258	335	321	436	683	670	1180	1290	2040	8
9	377	489	688	259	289	220	292	867	646	1170	1300	2640	9
10	324	493	968	236	200	196	394*	973	664	1140	1280	3080	10
11	388	797	1410	228	174	283	638	1030	552	1130	1300	3110	11
12	453	920	1200	287	162	260	385	1120	441	1240	1280	2840	12
13	385	1530	894	420	157	211*	428	1290	530	1290	1260	2300	13
14	301	1800	721*	470	153	182	475	1400	438	1370	1280	1860	14
15	286	1670	599	573	153	195	482	1390	335	1310	1270	1540	15
16	214	1890	545	504	154	169	523	1300	305	1240	1300	1300	16
17	235	2270	484	478	152	199	669	1170	335	1210	1350	1230	17
18	246	1980	420	391	158	191	683	1230	395	1230	1460	1120	18
19	280	1740	405	334	154	173	613	1280	524	1270	1580	968	19
20	369	1440	364	328	156	158	513	1290	785	1280	1600	842	20
21	360	1600	335	316	154	189	564	1350	895	1310	1580	745	21
22	368	1430	296	362	149	154	613	1340	934	1420	1580	773	22
23	371	1110	286	318*	161	130	625	1250	1010	1420	1600	746	23
24	392	1340	276	293	166	142	495	1220	1040	1360	1630	670	24
25	422*	1720	266	257	162	134	422	1260	933	1270	1610	627	25
26	409	1510	264	215	226	140	503	1200	831	1240	1560	679	26
27	439	1200	261	194	171*	244	328	1210	841	1230	1640	680	27
28	429	1610*	254	194	177	204	191	1230	895	1300	1610	642	28
29	469	1560	248	186		183	186	1340	998	1310	1620	623	29
30	461	1210	251	190		175	128	1360	1060	1310	1680	613	30
31	446		246	176		164		1340		1320	1670		31
MONTHLY													
MEAN	376	1160	683	285	170	196	409	1048	768	1237	1442	1473	
MAX	469	2270	1700	573	335	321	683	1400	1260	1420	1680	3110	
MIN	214	392	246	157	134	130	128	376	305	1040	1260	613	
ACFT	23140	69050	41970	17540	9457	12060	24360	64440	45730	76070	88660	87630	
MEAN INSTANTANEOUS MAXIMUM FLOW, 1984-85 INSTANTANEOUS MINIMUM FLOW, 1984-85 TOTAL													
FLOW	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	ACRE FEET				
774	September 11	0015	3130	48.87	April 30	0200	102	37.99	560170				

REMARKS:

Station located on the downstream side of the State Highway 20 bridge, 3.0 miles west of Colusa.

Stage-discharge relationship affected by backwater conditions created by downstream diversion structures.

Station moved from the upstream side of the bridge on June 14, 1979 to its present location.

Period of record for discharge is June 1924 to December 1940 (irrigation season only), May 1941 to date. Period of record for gage height is same as discharge.

The datum for this station from 1957 to present is 0.00, USED. Prior to 1957, the datum was 37.09, USED.

FOR PERIOD OF RECORD BEGINNING 1924:

INSTANTANEOUS	MAXIMUM	25400E	GAGE HEIGHT 51.93	DATE February 21, 1958	TIME NR
AVERAGE/YEAR			Not available		

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A00647 FRESHWATER CREEK AT LEESVILLE ROAD NEAR WILLIAMS
LOCATION: LAT 39-07-46, LONG 122-18-31, T15N, R04W, SEC. 28, MD B&M COLUSA COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.B1

WATER YEAR	OCTOBER	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	0.0	0.4	0.7	0.4	0.3	0.5	1.0	0.4	0.0	0.0	0.0	0.0	1
2	0.1*	0.6	2.6	0.4*	0.3	0.4	0.9	0.4	0.1	0.0	0.0	0.0	2
3	0.1	0.5	9.7	0.4	0.3	0.5	0.8*	0.4	0.1	0.0	0.0	0.0	3
4	0.1	0.5	2.1*	0.4	0.3	0.5	0.7	0.4	0.0*	0.0	0.0	0.0	4
5	0.1	0.5	1.1	0.4	0.4*	0.6	0.7	0.4	0.0	0.0	0.0	0.0	5
6	0.1	0.4*	0.8	0.4	0.4	0.7*	0.7	0.3	0.0	0.0	0.0	0.0	6
7	0.1	0.4	0.7	0.4	0.6	0.7	0.7	0.2*	0.0	0.0	0.0	0.0	7
8	0.1	0.6	0.7	0.4	73	0.5	0.8	0.3	0.0	0.0	0.0	0.0	8
9	0.1	0.4	0.7	0.4	3.3	0.5	0.8	0.3	0.0	0.0	0.0	0.0	9
10	0.2	0.6	8.5	0.4	1.1	2.9	0.9	0.3	0.0	0.0	0.0	0.0	10
11	0.3	1.0	2.2	0.3	0.6	4.8	1.0	0.3	0.0	0.0	0.0	0.0	11
12	0.3	0.7	1.1	0.3	0.5	1.2	0.8	0.3	0.0	0.0	0.0	0.0	12
13	0.2	1.4	0.7	0.3	0.4	0.7	0.8	0.3	0.0	0.0	0.0	0.0	13
14	0.2	0.6	0.7	0.3	0.4	0.5	0.8	0.2	0.0	0.0	0.0	0.0	14
15	0.2	0.7	0.7	0.3	0.3	0.4	0.7	0.1	0.0	0.0	0.0	0.0	15
16	0.4	1.6	0.7	0.3	0.3	0.4	0.8	0.1	0.0	0.0	0.0	0.0	16
17	0.6	0.8	0.7	0.3	0.3	0.3	0.8	0.1	0.0	0.0	0.0	0.0	17
18	0.5	0.8	0.7	0.3	0.3	0.4	0.7	0.2	0.0	0.0	0.0	0.0	18
19	0.5	0.7	0.6	0.3	0.3	0.3	0.7	0.2	0.0	0.0	0.0	0.0	19
20	0.4	0.8	0.6	0.3	0.3	0.4	0.6	0.1	0.0	0.0	0.0	0.0	20
21	0.4	0.7	0.6	0.3	0.3	0.3	0.7	0.1	0.0	0.0	0.0	0.0	21
22	0.4	0.7	0.5	0.3	0.3	0.3	0.7	0.1	0.0	0.0	0.0	0.0	22
23	0.4	0.7	0.5	0.3	0.3	0.3	0.6	0.0	0.0	0.0	0.0	0.0	23
24	0.4	1.0	0.5	0.3	0.3	0.4	0.5	0.0	0.0	0.0	0.0	0.0	24
25	0.3	0.8	0.5	0.3	0.4	0.4	0.5	0.0	0.0	0.0	0.0	0.0	25
26	0.3	0.8	0.5	0.3	0.4	7.6	0.5	0.1	0.0	0.0	0.0	0.0	26
27	0.3	13	0.5	0.3	0.4	6.8	0.5	0.1	0.0	0.0	0.0	0.0	27
28	0.4	7.2	0.5	0.3	0.4	3.0	0.5	0.1	0.0	0.0	0.0	0.0	28
29	0.4	1.2	0.4	0.3		2.3	0.4	0.1	0.0	0.0	0.0	0.0	29
30	0.4	0.8	0.4	0.3		1.3	0.4	0.1	0.0	0.0	0.0	0.0	30
31	0.4		0.4	0.3		1.1		0.1		0.0	0.0		31
MONTHLY													
MEAN	0.3	1.4	1.3	0.3	3.1	1.3	0.7	0.2	0.0	0.0	0.0	0.0	
MAX	0.6	13	9.7	0.4	73	7.6	1.0	0.4	0.1	0.0	0.0	0.0	
MIN	0.0	0.4	0.4	0.3	0.3	0.3	0.4	0.0	0.0	0.0	0.0	0.0	
ACFT	17	81	83	20	172	81	42	12	0	0	0	0	

MEAN FLOW	INSTANTANEOUS DATE	MAXIMUM FLOW TIME	1984-85 G.H.	INSTANTANEOUS DATE	MINIMUM FLOW TIME	1984-85 G.H.	TOTAL ACRE FEET
0.7	February 8	0500	239 04.49	October 1	0100	0.0 01.46	508

REMARKS:

Station located on downstream side of Leesville Road bridge, 9.8 miles west of Williams. Tributary to Colusa Basin Drain.

Period of record for discharge is October 1981 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1982 to present is 0.0, local.

FOR PERIOD OF RECORD BEGINNING 1982:

INSTANTANEOUS AVERAGE/YEAR	MAXIMUM	FLOW CFS	GAUGE HEIGHT	DATE	TIME
		3180	10.84	January 26, 1983	1800
		Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02950 RECLAMATION DISTRICT 787 DRAIN TO COLUSA BASIN DRAIN
LOCATION: LAT 38-48-03, LONG 121-43-28, T11N, R02E, SEC. 14, MD B&M YOLO COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.A0

WATER YEAR	OCTOBER 1984	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
RECORDS SUFFICIENT TO COMPLETE ONLY MONTHLY FLOWS													
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MONTHLY													
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	1.5	9.0	0.6	0.0	3.7	0.4	
MAX													
MIN													
ACFT	0	0	0	0	0	2	90	554	37	0	228	24	
MEAN	INSTANTANEOUS	MAXIMUM	FLOW, 1984-85	INSTANTANEOUS	MINIMUM	FLOW, 1984-85	TOTAL						
FLOW	DATE	TIME	FLOW G.H.	DATE	TIME	FLOW G.H.	ACRE FEET						
1.3		NR			NR		935						

REMARKS:

Plant located 0.3 miles west of Knights Landing.

This is drainage returned by pumping between Knights Landing and Outfall Gates and the Sacramento River. Daily distribution of flow is not available since the plant operates on an automatic float switch.

Period of record for discharge is January 1940 to date.
Record for gage height are not available.

FOR PERIOD OF RECORD BEGINNING 1940:

INSTANTANEOUS	MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR		CFS	HEIGHT		
		No record.			
		Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02945 COLUSA BASIN DRAIN AT KNIGHTS LANDING

LOCATION: LAT 38-48-06, LONG 121-43-18, T11N, R02E, SEC. 14, MD B&M YOLO COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07.D0

WATER DAY	YEAR OCT	OCTOBER NOV	1984 DEC	through JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	689	170	0.0	532	183	138	89	0.0	1520	1150	1250	1850	1
2	531	391	0.0	527	181	145	126	0.0	1480	793	1260	1870	2
3	489	212	0.0	458	171	160	270	136	1360	993	1260	1880	3
4	529	0.0	0.0	434	250	196	167	250	1080	1010	1250	1930	4
5	529	240	0.0	294	131	179	29	244	982	965	1140	2020	5
6	533	258	0.0	146	18	178	28	91	943	982	1180	2070	6
7	569	223	0.0	164	19	208	28	0.0	809	989	1200	2090	7
8	595	233	0.0	180	277	278	114	351	466	1140	1200	2100	8
9	610	403	0.0	186	177	320	464	630	585	1170	1250	2160	9
10	741	550	0.0	175	0.0	239	448	741	600	1150	1310	2240	10
11	618	612	0.0	175	36	240	464	811	450	998	1290	2250	11
12	609	843	0.0	175	380	227	558	834	425	1080	1210	2260	12
13	622	401	0.0	239	436	175	544	1130	348	1290	1170	2290	13
14	524	0.0	0.0	305	399	202	534	1280	447	1440	1160	2280	14
15	440	0.0	0.0	496	185	182	541	1310	213	1440	1190	2230	15
16	387	0.0	0.0	660	176	206	556	1460	0.0	1240	1200	2090	16
17	356	87	0.0	543	184	208	582	1280	0.0	1240	1250	1900	17
18	347	0.0	0.0	663	182	218	616	1140	176	1080	1320	1790	18
19	350	0.0	0.0	422	184	221	637	1080	221	1200	1490	1680	19
20	370	0.0	0.0	73	181	166	639	1290	184	1150	1590	1260	20
21	421	0.0	0.0	23	185	189	620	1370	618	1030	1710	1150	21
22	431	0.0	4.0	61	171	194	616	1360	657	1180	1760	1030	22
23	445	0.0	478	303	171	164	621	1320	674	1350	1710	978	23
24	452	0.0	556	395	171	170	618	1260	1200	1400	1690	934	24
25	457	0.0	561	392	174	184	598	1260	979	1370	1700	876	25
26	567	0.0	254	400	169	166	580	1280	738	1090	1740	831	26
27	776	0.0	243	397	180	229	563	1290	735	852	1730	853	27
28	867	0.0	243	314	162	270	479	1280	732	852	1740	842	28
29	909	0.0	223	184	212	176	1300	738	853	1750	856	29	29
30	955	0.0	241	183	230	30	1390	767	1030	1780	794	30	30
31	1020		230	185	209		1490		1200	1820		31	31

MONTHLY

MEAN	572	154	97.8	312	183	203	411	924	671	1120	1429	1645
MAX	1020	843	561	663	436	320	639	1490	1520	1440	1820	2290
MIN	347	0.0	0.0	23	0.0	138	28	0.0	0.0	793	1140	794
ACFT	35180	9170	6016	19210	10180	12500	24470	56840	39920	68840	87870	97870

MEAN FLOW 647	INSTANTANEOUS DATE	MAXIMUM FLOW, TIME NR	1984-5 CFS G.H.	INSTANTANEOUS DATE	MINIMUM FLOW, TIME NR	1984-5 CFS G.H.	TOTAL ACRE FEET 468066
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REMARKS:

Station located at Knights Landing Outfall Gates, 0.3 miles west of Knights Landing.
Tributary to Sacramento River.

Flow regulated by outfall gates.

Period of record for discharge is May 1924 to October 1939 (irrigation season only),
January 1940 to date. Period of record for gage height is same discharge.

The datum for this station from 1924 to present is 0.0, USED.

FOR PERIOD OF RECORD BEGINNING 1924:

INSTANTANEOUS AVERAGE/YEAR	MAXIMUM NR	FLOW CFS NR	GAUGE HEIGHT 40.40	DATE March 6, 1983	TIME 2200
		Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02930 FREMONT WEIR SPILL TO YOLO BYPASS
LOCATION: LAT 38-45-44, LONG 121-39-02, T11N, R03E, SEC. 27, MD B&M YOLO COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-02.A0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8	N	N	N	N	N	N	N	N	N	N	N	N	8
9													9
10	O	O	O	O	O	O	O	O	O	O	O	O	10
11													11
12													12
13													13
14													14
15													15
16	F	F	F	F	F	F	F	F	F	F	F	F	16
17													17
18	L	L	L	L	L	L	L	L	L	L	L	L	18
19													19
20	O	O	O	O	O	O	O	O	O	O	O	O	20
21	W	W	W	W	W	W	W	W	W	W	W	W	21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MONTHLY													
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
ACFT	0	0	0	0	0	0	0	0	0	0	0	0	
MEAN FLOW	INSTANTANEOUS	MAXIMUM FLOW, 1984-85			INSTANTANEOUS	MINIMUM FLOW, 1984-85			TOTAL				
0.0	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	ACRE FEET				
	OCTOBER 01	0015	0.0	NR	OCTOBER 01	0015	0.0	NR	0				

REMARKS:

Station located 4.1 miles southeast of Knights Landing.

Concrete weir 9,120 feet wide with elevation at crest equal to 33.50 (USED) - 3.14 = 30.36 (NGVD).
Flows are computed using gage Sacramento River at Fremont Weir (west) for gage heights.

Period of record for discharge is January 1947 to date.

The datum for this station not relevant.

FOR PERIOD OF RECORD BEGINNING 1935:

	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS	294000	NR	December 23, 1955	NR
MAXIMUM				
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A04265 BUTTE CREEK NEAR DURHAM

LOCATION: LAT 39-40-38, LONG 121-46-37, T21N, R2E, SEC. 17, MD B&M BUTTE COUNTY

DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.D0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY		
1	38	88	354	185	170	233	415	116	61	15	9.8	13	1		
2	37	157	324	183	175	235	458	117	49	13	13	13	2		
3	36	310	356	181	176	226	466	117	45	13	9.8	13	3		
4	35	180	287	180	172	232	440	111	40	16	8.4	11	4		
5	35*	146	285	178	167	229	431	105	40	22	8.2	9.9	5		
6	35	168	261	176	169	242	415	101	45	18	7.9	13	6		
7	34	251	241	211	238	292	406	96	41	22	7.9	22	7		
8	36	268	241	219	1920	256	396	93	39	22	7.9*	99	8		
9	38	238	239	212	757	247	388*	91	34	18	7.9	143	9		
10	41	179	313	213	469	274	380	89	31	16	7.9	112	10		
11	137	388	474	207	364	290	357	87	26	13	8.0	71	11		
12	86	475	444*	221	320	284	346	89	27	9.0	8.3	54	12		
13	64	820	380	216	301	284	317	85	25	10	8.3	45	13		
14	59	527	343	213	293	283	282	80	23	10	8.6	47	14		
15	66	343*	427	209	289	288*	304	78*	20	10	8.3	40	15		
16	87	349	421	194	284	288	306	68	20	10	8.3	37	16		
17	110	353	326	189	278	284	293	66	25	14	8.3	38*	17		
18	99	372	295	190	268	303	271	60	26	17*	8.5	43	18		
19	116	329	272	187	266	306	281	56	29	19	8.7	59	19		
20	113	336	253	187	266	299	258	60	24	23	8.7	54	20		
21	100	352	241	184	256	301	248	64	21	24	8.7	52	21		
22	87	299	231	183	252*	282	243	61	21	24	8.7	54	22		
23	75	268	223	180	255	272	229	54	20	14	8.7	53	23		
24	63	805	218	175	251	314	221	60	22	9.6	8.7	26	24		
25	65	520	212	172	248	339	211	69	22	10	11	25	25		
26	67	374	209	184	242	419	204	67	20	9.1	12	25	26		
27	75	575	204	179	238	482	168	66	17	10	9.5	26	27		
28	68	922	202	190	233	454	142	63	18	9.1	9.9	30	28		
29	81	547	194	184*		383	132	68	17	9.1	9.5	24	29		
30	85	413	190	174		358	121	74	17	8.8	11	24	30		
31	83		186	173		367		66		8.8	12		31		

MONTHLY

MEAN	69.4	378	285	191	333	301	304	79.9	28.8	15.4	9.1	42.5
MAX	137	922	474	221	1920	482	466	117	61	24	13	143
MIN	34	88	186	172	167	226	121	54	17	8.8	7.9	9.9
ACFT	4278	22520	17550	11760	18480	18540	18110	4913	1716	886	560	2531

MEAN FLOW	INSTANTANEOUS FLOW	MAXIMUM FLOW	1984-85	INSTANTANEOUS FLOW	MINIMUM FLOW	1984-85	TOTAL
DATE	DATE	TIME	G.H.	DATE	TIME	G.H.	ACRE FEET
168	February 08	0930	3570	7.06	July 12	1915	7.90 1.02 121832

REMARKS:

Station located 0.1 mile below Ord-Chico Highway bridge, 2.6 miles northeast of Durham. Tributary to Butte Slough.

Flow affected at times by large upstream diversions and imports from West Branch Feather River.

Period of record for discharge is January 1958 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1958 to present is 181.01, USED.

PERIOD OF RECORD BEGINNING 1958:

INSTANTANEOUS FLOW	MAXIMUM FLOW	1984-85	INSTANTANEOUS FLOW	MINIMUM FLOW	1984-85	TOTAL
DATE	DATE	TIME	G.H.	DATE	TIME	G.H.
21300E	14.55	December 22, 1964	1850			
AVERAGE/YEAR	Not Available					

E = Estimated. NR = No Record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02984 CHEROKEE CANAL NEAR RICHVALE
LOCATION: LAT 39-27-54, LONG 121-44-30, T19N, R02E, SEC. 23, MD B&M BUTTE COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.D0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER 1985										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	2.4	40	138	71	27	59	36	22	35	26	23	23	1
2	2.9	37	123	70	41	59	32	23	35	29	19	24	2
3	3.9	41	236	66	59	59	29	14	31	39	17	26	3
4	8.2*	44	173	65	59	57	26	12	28	22	9.7	28	4
5	6.6	43	135	67	58	59*	30	31	31	33	15	33	5
6	6.2	47	119	67	57	73	49	29	33	41	27	27	6
7	6.4	48	104	80	78	104	47	32	32	37	30	23	7
8	6.4	60	98	101	987	91	50	30	29	37	28	25	8
9	5.2	64	91	77	329	75	57*	29	32	37	23*	28	9
10	4.2	56	240	74	158	76	51	27	36	36	22	19	10
11	23	157	234	70	119	108	54	23	32	36	20	4.6	11
12	37	403	147	67	104	61	52	30	31	38	19	14	12
13	29	461	115	66	94	41	49	35	31	39	19	43	13
14	25	217*	99	65	87	36	44	29	30	38	19	37	14
15	23	123	197	64	83	32	45	32*	36	38*	19	34	15
16	25	163	482	63	80	30	44	25	37	38	19	27	16
17	52	240	201	62	77	28	48	28	38	34	21	33*	17
18	45	348	140	63	74	26	45	34	34	33	23	37	18
19	36	198	119	63	73	28	51	28	33	34	23	34	19
20	36	138	108*	62	71	25	15	30	31	34	25	33	20
21	37	380	99	61	69*	22	11	36	31	33	24	40	21
22	38	178	93	60	67	20	15	32	35	35	23	32	22
23	40	125	89	61	64	20	26	33	39	35	25	23	23
24	34	1080	87	62	63	22	18	33	39	35	25	22	24
25	33	380	85	60	62	30	23	39	35	34	26	15	25
26	31	188	82	71	61	32	30	34	32	33	26	9.4	26
27	34	231	80	71	60	230	31	35	36	28	26	12	27
28	36	801	77	67	58	104	29	30	35	24	26	13	28
29	35	237	75	70		66	25	29	36	30	24	12	29
30	41	168	73	59*		51	23	26	31	31	23	12	30
31	42		72	38		41		33		30	23		31
MONTHLY													
MEAN	25.3	223	136	66.5	115	56.9	36.2	29.1	33.5	33.8	22.3	24.8	
MAX	52	1080	482	101	987	230	57	39	39	41	30	43	
MIN	2.4	37	72	38	27	20	11	12	28	22	9.7	4.6	
ACFT	1556	13280	8352	4092	6385	3501	2152	1791	1991	2077	1372	1474	

MEAN FLOW	INSTANTANEOUS FLOW	MAXIMUM FLOW, 1984-5	DATE	TIME	CFS	G.H.	INSTANTANEOUS FLOW	MINIMUM FLOW, 1984-5	DATE	TIME	CFS	G.H.	TOTAL ACRE FEET
66.3			November 24	1215	3180	9.86			May 04	730	1.5	3.33	48023

REMARKS:

Station located at Butte City Road bridge, 2.1 miles south of Richvale.

Backwater from Cherokee Dam Weir, 1.05 miles below station, at times affects the stage-discharge relationship.

Period of record for discharge is June 1960 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1960 to present is 88.2, USCGS.

FOR PERIOD OF RECORD BEGINNING 1960:

INSTANTANEOUS AVERAGE/YEAR	MAXIMUM	FLOW	GAGE HEIGHT	DATE	TIME
		15200E	13.80	October 13, 1962	1940
		Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02972 BUTTE SLOUGH NEAR MERIDIAN

LOCATION: LAT 39-10-05, LONG 121-53-28, T15N, R01E, SEC. 06, MD B&M SUTTER COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07.C0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY	
1	167	309	2500	451	256	158	252	221	378	289	527	774	1	
2	176	253	2360	452	243	174	249	237	372	291	530	763	2	
3	172	169	2210	412	240	146	273	261	339	312	483	764	3	
4	171	212	2080	355	240	143	287	310	282	362	415	790	4	
5	176	237	1990	340	230	146	274	288	270	378	391	811	5	
6	179	208	1870	337	226	163	258	259	268	389	362	823	6	
7	182	201	1710	341	220	205	245	247	338	382	361	823	7	
8	185	234	1460	361	245	245	258	255	300	392	381	836	8	
9	187	291	1250	403	666	298	293	241	248	357	390	922	9	
10	187	365	1130	420	1200	279	283*	222	271	311	391	1040	10	
11	186	403	1140	429	993	277	256	219	258	294	401	1100	11	
12	193	817	1200	418	715	354	211	221	238	306	404	1120	12	
13	204	1510	1170*	413	558	351*	234	271	230	346	405	1120	13	
14	201	1820	1120	390	445	265	360	335	222	405	416	1080	14	
15	192	1970	1060	411	352	200	391	360	224	463	433	1020	15	
16	180	2030	1010	453	292	221	391	396	270	517	441	963	16	
17	180	2010	1140	455	272	220	360	350	267	506	512	793	17	
18	170	2040	1130	432	255	220	278	329	214	469	587	635	18	
19	181	2050	1070	407	236	219	270	258	175	442	663	546	19	
20	220	2050	1010	388	239	219	282	321	180	407	796	502	20	
21	261	2050	964	373	233	241	294	359	204	415	863	441	21	
22	292	2000	851	363	220	303	310	380	225	444	851	385	22	
23	318	1940	755	349*	207	301	327	425	216	490	827	350	23	
24	356	1870	702	340	197	271	279	407	259	511	832	287	24	
25	378	1960	652	324	196	310	213	383	346	532	820	215	25	
26	346	2300	616	313	183	370	200	375	368	535	785	151	26	
27	277	2360	567	300	176	227	227	371	336	530	720	122	27	
28	257	2430	547	293	167*	349	216	351	316	526	688	129	28	
29	264	2460*	520	287	340	216	362	288	537	677	140	29	29	
30	274	2520	483	279	319	220	390	282	544	709	142	30	30	
31	286		461	271	278		379		535	755		31	31	
MONTHLY														
MEAN	226	1369	1185	373	346	252	274	316	273	426	575	653		
MAX	378	2520	2500	455	1200	370	391	425	378	544	863	1120		
MIN	167	169	461	271	167	143	200	219	175	289	361	122		
ACFT	13880	81460	72850	22930	19240	15490	16280	19400	16230	26220	35340	38850		
MEAN	INSTANTANEOUS	MAXIMUM FLOW,	1984-85	INSTANTANEOUS	MINIMUM FLOW,	1984-85	TOTAL							
FLOW	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	ACRE FEET					
522	November 30	1845	2540	48.25	September 27	1500	120	40.94	378170					

REMARKS:

Station located on right bank 0.5 miles upstream from Farmlan Road 1.7 miles northeast of Meridian. Tributary to Sutter Bypass.

Flow affected by gate operation upstream. Stage-discharge relationship affected by backwater conditions created by downstream diversion structures. Flow during summer months is made up almost entirely of return water from lands irrigated by Feather River diversions. During flood periods, Sacramento River water enters Butte Basin above Butte City from bank spill and spill over Moulton and Colusa Weirs.

Period of record for discharge is January 1939 to date. Period of record for gage height is November 1934 to May 1937 (flood season only), October 1937 to date.

The datum for this station from 1934 to present is 0.00, USED.

FOR PERIOD OF RECORD BEGINNING 1937:

	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	179000	62.20	March 04, 1983	1100
AVERAGE/YEAR	Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A05922 RECLAMATION DISTRICT 1660 DRAINAGE TO SUTTER BYPASS
LOCATION: LAT 39-01-57, LONG 121-44-33, T14N, R2E, SEC 27, MD B&M SUTTER COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.C0

WATER DAY	YEAR OCT	OCTOBER NOV	1984 through DEC	SEPTEMBER JAN	1985 FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	126	0.0	65	19							0.0	0.0	1
2	126	0.0	66	12							0.0	0.0	2
3	126	0.0	67	15							0.0	0.0	3
4	116	0.0	67	18							0.0	36	4
5	116	0.0	66	18							0.0	21	5
6	116	0.0	70	17							0.0	35	6
7	107	0.0	66	2.0							0.0	35	7
8	86	0.0	67	0.0	N	N	N	N	N	N	0.0	35	8
9	76	0.0	70	0.0							0.0	35	9
10	38	0.0	65	0.0	O	O	O	O	O	O	0.0	35	10
11	23	0.0	83	0.0							0.0	35	11
12	38	0.0	61	0.0							0.0	35	12
13	38	0.0	63	0.0							0.0	35	13
14	63	0.0	70	0.0							0.0	35	14
15	63	0.0	68	0.0							0.0	35	15
16	63	35	69	0.0	F	F	F	F	F	F	0.0	36	16
17	76	36	68	0.0							0.0	36	17
18	63	36	68	0.0	L	L	L	L	L	L	0.0	36	18
19	63	35	71	0.0							0.0	37	19
20	63	33	69	0.0	O	O	O	O	O	O	0.0	26	20
21	76	34	57	0.0	W	W	W	W	W	W	0.0	22	21
22	76	37	59	0.0							37	18	22
23	50	64	29	0.0							36	0.0	23
24	63	64	30	0.0							36	0.0	24
25	50	64	26	0.0							36	0.0	25
26	63	59	30	0.0							36	0.0	26
27	63	62	28	0.0							36	0.0	27
28	0.0	65	29	0.0							36	0.0	28
29	0.0	64	23	0.0							36	0.0	29
30	0.0	64	31	0.0							33	0.0	30
31	0.0		19	0.0							29		31

MONTHLY												
MEAN	65.4	25.1	55.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	11.3	20.6
MAX	126	65	83	19	0.0	0.0	0.0	0.0	0.0	0.0	37	37
MIN	0.0	0.0	19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACFT	4020	1492	3412	200	0.0	0.0	0.0	0.0	0.0	0.0	696	1226

MEAN FLOW	INSTANTANEOUS DATE	MAXIMUM FLOW, 1984-85	TIME	FLOW G.H.	INSTANTANEOUS MINIMUM FLOW, 1984-85	TIME	FLOW G.H.	TOTAL ACRE FEET
15.3		NR				NR		11046

REMARKS:

Plant located 9.9 miles southwest of Yuba City, 8.5 mile east of Grimes.

This is drainage returned by pumping and gravity.

Period of record for discharge is May 1954 to date.
Records for gage height are not available.

FOR PERIOD OF RECORD BEGINNING 1954:

INSTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAGE HEIGHT	DATE	TIME
	Not available.	Not available.		

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A05929 WADSWORTH CANAL NEAR SUTTER
LOCATION: LAT 39-09-12, LONG 121-44-00, T15N, R02E, SEC. 15, MD B&M SUTTER COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.C0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY	
1	115	86	104	39	23	17	170	46	174	89	90	218	1	
2	120	45	94	36	23	22	162	86	164	70	81	223	2	
3	126	25	151	35	23	21	124	100	187	75	90	242	3	
4	126*	20	124	36	23	7.0	116	132	179	77	88	256	4	
5	140	24	104	35	22	16*	112	110	158	58	75	274	5	
6	126	23	92	35	23	6.0	131	101	140	44	67	261	6	
7	127	22	81	48	24	22	137	74	108	56	92*	253	7	
8	132	26	73	48	118	69	126	65	141	61	89	294	8	
9	126	24	68	47	97	130	112*	108	130	34	94	335	9	
10	132	23	81	47	65	147	139	108	97	31	94	366	10	
11	147	33	86	45	56	143	99	77	60	57	79	333	11	
12	143	47	79	44	49	92	115	90	53	64	75	276	12	
13	130	71	73	34	45	82	151	106	39	75	85	260	13	
14	128	57*	67	34	41	97	203	105	29	108	120	239	14	
15	130	43	84	33	40	110	180	125	44	105	128	216	15	
16	127	49	104	30	38	110	117	97	54	97*	121	195	16	
17	114	53	82	30	37	121	142	84*	64	87	97	177	17	
18	128	89	75	29	35	128	138	157	38	90	118	171*	18	
19	125	68	73	28	35	115	153	189	24	97	138	171	19	
20	103	64	64*	28	33	96	163	175	24	71	141	155	20	
21	102	75	59	31	31*	84	171	181	38	77	147	133	21	
22	101	62	57	33	30	91	132	170	84	92	149	121	22	
23	115	53	52	30	29	137	104	167	88	79	140	112	23	
24	110	165	52	28	28	152	107	225	80	81	177	107	24	
25	102	137	49	27	27	145	132	185	73	75	163	116	25	
26	101	101	48	26	26	148	150	190	81	75	201	121	26	
27	98	126	46	25	22	233	126	210	75	65	204	121	27	
28	104	309	44	23	24	196	71	194	77	73	201	124	28	
29	110	175	42	24		199	35	165	80	84	193	130	29	
30	108	123	40	24*		213	55	163	98	87	203	127	30	
31	118		40	24		210		162		93	206		31	
MONTHLY														
MEAN	120	73.9	73.8	33.4	38.1	108	129	134	89.4	75.1	127	204		
MAX	147	309	151	48	118	233	203	225	187	108	206	366		
MIN	98	20	40	23	22	6.0	35	46	24	31	67	107		
ACFT	7367	4399	4538	2055	2116	6662	7682	8225	5318	4616	7827	12150		

MEAN FLOW	INSTANTANEOUS DATE	MAXIMUM FLOW, 1984-85	INSTANTANEOUS MINIMUM FLOW, 1984-85	TOTAL ACRE FEET
101		NR	NR	72955

REMARKS:

Station located at South Butte Road bridge, 0.9 miles east of Sutter. Tributary to Sutter Bypass.

This station and one 2.2 miles downstream are used to determine the slope for rating of canal. This flow and flow of Butte Slough to Sutter Bypass make up entire Feather River contribution to the Sutter Bypass. Stage-discharge relationship affected by backwater conditions created by downstream diversion structures.

Records from January 1939 to March 1961 previously published as Wadsworth Canal at Butte House Road. Period of record for discharge is March 1961 to date. Period of record for gage height is same as discharge.

The datum for this station from 1961 to present is 0.00, USED.

FOR PERIOD OF RECORD BEGINNING 1929:

	FLOW	GAUGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM**	1340	47.15	February 27, 1973	1930
AVERAGE/YEAR	Not available.			

** Instantaneous maximum gage height was recorded on March 4, 1983 (0945) as 54.29 feet (discharge not calculated).

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02963 RECLAMATION DISTRICT 1660 DRAINAGE TO TISDALE BYPASS
LOCATION: LAT 39-01-44, LONG 121-46-53, T14N, R2E, SEC 30, MD B&M SUTTER COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.A0

WATER DAY	YEAR OCT	OCTOBER NOV	1984 through DEC	SEPTEMBER JAN	1985 FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	0.0	57	0.0	0.0	25	0.0	33	8.9	31	19	32	0.0	1
2	0.0	53	0.0	0.0	27	0.0	35	5.4	30	16	35	0.0	2
3	0.0	45	35	0.0	27	0.0	39	9.3	33	15	37	0.0	3
4	0.0	38	0.0	0.0	27	0.0	41	15	25	15	38	0.0	4
5	0.0	30	50	0.0	30	0.0	41	16	25	14	38	0.0	5
6	0.0	22	0.0	0.0	30	32	41	16	8.0	13	40	0.0	6
7	0.0	0.0	0.0	27	30	31	41	16	9.2	16	42	0.0	7
8	0.0	0.0	37	22	33	30	40	16	9.8	16	43	0.0	8
9	0.0	0.0	0.0	22	32	30	38	15	10	17	45	0.0	9
10	0.0	0.0	0.0	25	33	27	35	16	11	17	52	0.0	10
11	0.0	10	0.0	22	25	26	35	17	11	27	50	23	11
12	10	10	0.0	25	28	26	35	16	11	25	50	0.0	12
13	10	0.0	27	25	28	27	36	17	35	27	48	0.0	13
14	10	0.0	0.0	25	14	26	38	55	37	27	36	0.0	14
15	14	0.0	0.0	22	22	27	39	51	37	57	53	0.0	15
16	20	0.0	0.0	25	28	27	39	43	34	51	39	0.0	16
17	27	36	0.0	32	25	27	38	45	11	48	38	0.0	17
18	28	38	0.0	36	27	26	39	25	11	33	52	0.0	18
19	32	47	0.0	39	22	26	38	16	11	33	46	0.0	19
20	32	37	0.0	41	10	25	39	17	11	34	38	0.0	20
21	32	0.0	0.0	47	14	25	39	19	11	36	30	0.0	21
22	32	0.0	0.0	43	14	24	38	30	11	38	28	0.0	22
23	32	0.0	0.0	39	17	24	46	30	11	58	14	0.0	23
24	28	17	0.0	35	22	24	40	46	11	54	14	17	24
25	28	0.0	0.0	32	20	24	36	27	11	51	10	14	25
26	28	0.0	0.0	30	25	25	30	23	11	48	14	14	26
27	32	47	0.0	27	22	26	25	25	23	35	14	14	27
28	32	10	0.0	25	25	22	14	25	21	37	14	14	28
29	28	0.0	0.0	22	20	0.0	0.0	26	20	35	10	17	29
30	27	43	0.0	22	19	0.0	0.0	45	20	35	10	16	30
31	14	0.0	0.0	25	18	0.0	47	0.0	0.0	35	0.0	0.0	31

MONTHLY

MEAN	16.0	18.0	4.8	23.7	24.4	21.4	34.3	25.1	18.4	31.7	32.6	4.3
MAX	32	57	50	47	33	32	46	55	37	58	53	23
MIN	0.0	0.0	0.0	0.0	10	0.0	0.0	5.4	8.0	13	0.0	0.0
ACFT	984	1071	296	1458	1353	1317	2039	1544	1093	1948	2003	256

MEAN FLOW	INSTANTANEOUS FLOW	MAXIMUM FLOW	1984-85	INSTANTANEOUS FLOW	MINIMUM FLOW	1984-85	TOTAL
DATE	DATE	TIME	FLOW G.H.	DATE	TIME	FLOW G.H.	ACRE FEET
21.2		NR			NR		15362

REMARKS:

Plant located on north levee of Tisdale Bypass, 2.1 miles east of Tisdale Weir, located 6.8 miles east of Grimes.

This is drainage returned by pumping and gravity.

Period of record for discharge is January 1925 to date.
Records for gage height are not available.

FOR PERIOD OF RECORD BEGINNING 1929:

INSTANTANEOUS MAXIMUM	FLOW	GAUGE	DATE	TIME
AVERAGE/YEAR	CFS	HEIGHT		
	Not available.			
	Not available.			

E = Estimated. NR = No Record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02926 RECLAMATION DISTRICT 1500 DRAIN TO SACRAMENTO SLOUGH
LOCATION: LAT 38-47-06, LONG 121-39-18, T11N, R03E, SEC. 20, MD B&M SUTTER COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.A0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	20	0.0	141	90	33	41	25	105	487	368	285	324	1
2	0.0	0.0	154	65	0.0	33	4.0	131	373	274	324	315	2
3	114	0.0	174	65	91	48	0.0	132	328	237	324	324	3
4	0.0	0.0	171	45	25	22	25	145	144	274	342	351	4
5	0.0	0.0	147	20	16	36	15	152	591	296	342	368	5
6	0.0	0.0	138	86	29	13	62	173	409	274	351	285	6
7	0.0	0.0	138	62	33	0.0	57	167	424	274	359	538	7
8	0.0	41	143	70	194	99	60	158	366	274	359	360	8
9	0.0	33	111	74	174	45	44	172	301	262	359	405	9
10	74	53	143	86	120	78	81	164	447	285	333	413	10
11	0.0	49	132	74	101	25	110	174	382	285	351	388	11
12	0.0	57	151	66	65	29	86	207	391	285	306	318	12
13	0.0	167	142	74	78	41	84	239	411	262	315	278	13
14	0.0	92	114	61	82	41	82	243	215	209	315	229	14
15	18	76	135	41	53	41	59	187	275	180	306	209	15
16	66	88	127	57	49	41	75	91	306	148	306	197	16
17	0.0	100	119	57	82	25	115	355	309	297	315	193	17
18	0.0	120	104	57	41	53	136	365	317	276	324	160	18
19	0.0	112	108	57	41	25	264	156	257	263	33	127	19
20	0.0	116	104	57	58	13	167	341	265	267	297	12	20
21	0.0	132	96	53	58	47	145	288	286	280	496	28	21
22	0.0	116	97	53	53	23	122	288	279	263	477	53	22
23	0.0	92	85	37	53	4.0	143	282	325	296	317	65	23
24	16	128	85	41	25	8.0	204	276	332	296	66	85	24
25	0.0	128	85	53	41	0.0	274	250	560	279	209	67	25
26	0.0	131	89	53	41	0.0	325	276	383	250	250	67	26
27	0.0	177	77	16	41	8.0	199	301	309	226	250	27	27
28	0.0	170	77	0.0	41	62	133	335	325	230	296	34	28
29	0.0	173	65	25		62	94	368	460	144	306	28	29
30	0.0	161	65	33		49	102	351	367	315	324	80	30
31	0.0		65	33		107		385		250	342		31

MONTHLY													
MEAN	9.9	83.7	116	53.6	61.4	36.1	110	234	354	262	309	211	
MAX	114	177	174	90	194	107	325	385	591	368	496	538	
MIN	0.0	0.0	65	0.0	0.0	0.0	0.0	91	144	144	33	12	
ACFT	611	4982	7105	3295	3408	2220	6530	14390	21070	16100	19000	12550	
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85						INSTANTANEOUS MINIMUM FLOW, 1984-85						TOTAL
FLOW	DATE						DATE						ACRE FEET
154	NR						NR						111261

REMARKS:

Plant located on west levee of Sutter Bypass, 3.7 miles southeast of Knights Landing.

This is drainage returned by pumping and gravity.

Period of record for discharge is April 1930 to October 1938 (irrigation season only) and January 1938 to date. Records for gage height are not available.

FOR PERIOD OF RECORD BEGINNING 1915:

	FLOW	GAGE	DATE	TIME
INSTANTANEOUS MAXIMUM	CFS	HEIGHT		
AVERAGE/YEAR	Not available.			
	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02925 SACRAMENTO SLOUGH AT SACRAMENTO RIVER

LOCATION: LAT 38-46-63, LONG 121-38-27, T11N, R3E, SEC. 21, MD B&M

SUTTER COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07.A0

WATER YEAR	OCTOBER	NOV	1984	through	SEPTEMBER	1985								
DAY	OCT		DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY	
1	273	434	---F	622	455	364	603	415	1340	614	1290E	1850	1	
2	246	634	5310	671	393	352	480	445	1280	612	1310	1870	2	
3	358	582	4740	609	484	325	384	535	1120	552	1270	1850	3	
4	361	380	3670	584	422	304	363	682	1110	549	1280	1880	4	
5	369	165	2710	533	344	203	358	708	1010	639	1240	1860	5	
6	291	53	2790	526	381	174	484	711	908	684	1190	1930	6	
7	280	52	2850	466	396	157	502	561	882	705	1100	2090	7	
8	305	54	2440	472*	327	221	479	472	905	690	1080	1970	8	
9	305	214	2300	562	14	355	451	361	752	693	1080	2020	9	
10	336	227	2070	846	936	408	558*	350	848	667	1050	2190	10	
11	387	308	1300	757	1480	375	670	394	803	610	1100	2290	11	
12	354	435	689	665	1270	483	637	496	727	615	1110	2340	12	
13	322	474	2180	650	1180	569*	616	644	749	638	1160	2270	13	
14	407	592	2840	646	1040	593	604	797	670	638	1180	2220	14	
15	422	1220	2520	546	914	596	678	1020	551	795	1160	2150	15	
16	419	1800	1890	468	771	536	835	938	576	879	1260	2040	16	
17	421	1840	1600	598	679	559	804	978	608	978	1360	1970	17	
18	381	1630	1580	628	553	562	725	987	652	939	1420	1880	18	
19	368	1850	1550	629	492	526	819	916	581	939	1470	1720	19	
20	367	1890	1410	648	453	466	774	943	519	917	1570	1430	20	
21	350	2180	1320	618	394	471	767	950	486	897	1930	1370	21	
22	350	1940	1260	602	371	485	840	1020	431	832	1950	1340	22	
23	379	2050	1150	609	416	470	821	1140	433	1100E	1910	1240	23	
24	310	2090	1020	575	369	527	743	1110	558	1040E	1840	1110	24	
25	335*	1670	943	548	366	554	708	1120	790	1100E	1840	969	25	
26	480	2640	742	562	337	737	729	1120	855	1100E	1840	823	26	
27	492	4380	581	576	365*	880	762	1130	763	1090E	1850	704	27	
28	459	4880	655	482	348	768	705	1190	779	1120E	1850	648	28	
29	405	3800	661	520		640	609	1210	739	1150E	1840	611	29	
30	381	---F	641	504		635	412	1180	698	1200E	1820	562	30	
31	334		600	469		687		1200		1260E	1830		31	

MONTHLY

MEAN	363	NR	NR	587	570	483	631	830	771	847E	1457	1640
MAX	492	NR	NR	846	1480	880	840	1210	1340	1260E	1950E	2340
MIN	246	NR	NR	466	14	157	358	350	431	549	1050E	562
ACFT	2231	NR	NR	36080	31640	29720	37530	51020	45860	52050E	89610	97580

MEAN FLOW NR	INSTANTANEOUS FLOW NR	MAXIMUM FLOW NR	1984-85 TIME FLOW NR	G.H.	INSTANTANEOUS FLOW NR	MINIMUM FLOW NR	1984-85 TIME FLOW NR	G.H.	ACRE FEET NR
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REMARKS:

Station located 0.5 miles above mouth, 4.6 miles southeast of Knights Landing.

During low flows this represents combined flows of Sutter Bypass and Reclamation District 1500. During high flows (above approx. gage height 26.0 feet) the slough is entirely submerged as it lies within the bypass area. Sharp rises in the Sacramento River cause zero or negative flow.

Period of record for discharge is June 1924 to October 1939 (irrigation season only), and January 1940 to date. Period of record for gage height is April 1945 to December 1949 (irrigation season only), and April 1947 to date.

The datum for this station from 1945 to present is 0.00, USED.

FOR PERIOD OF RECORD BEGINNING 1947:

INSTANTANEOUS FLOW NR	MAXIMUM FLOW NR	AVERAGE/YEAR	FLOW CFS	GAUGE HEIGHT	DATE	TIME
				Not available.		
				Not available.		

E = Estimate. NR = No Record. * = Discharge measurement of observation of no flow.

F = Flooded.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A05165 FEATHER RIVER NEAR GRIDLEY

LOCATION: LAT 39-22-00, LONG 121-38-48, T18N, R03E, SEC. 33, MD B&M

BUTTE COUNTY

DRAINAGE AREA: 3676 SQ MILES

HYDROLOGIC AREA: A-08.D0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	2350	1680	2950	3590	2530	2420	1460	4130	5460	3960	4030	2080	1
2	2370	1940	3980	3580	2580	2330	1500	4500	5460	3980	4040	2020	2
3	2290	1910	4610	3580	2560	2290	1510	4480	5510	3990	3670	1960	3
4	2080	1900	5410	3380	2560	2310	1470	4490	5520	3970	3580	1790	4
5	1940	2070	5480	2560	2580	2350	1470	4460	5520	3800	3580	1640	5
6	1940	2280	5500	2450	2570	2360	1470	4480	5530	3470	3580	1670	6
7	1920	2250	5500	2440	2640	2360	1450	4420	5320	3440	3590	1660	7
8	1910	2290	5410	2440	2730	2340	1450	4420	5000	3270	3560	1670	8
9	1840	2270	5380	2450	2620	2330	1450	4460	4990	2950	3520	1680	9
10	1660	2280	5420	2440	2570	2330	1430	4470	4990	2920	3060	1660	10
11	1540	2300	5380	2450	2580	2260	1450	4470	4980	2910	3010	1640	11
12	1510	2250	5370	2440	2240	2080	1440	4400	4590	3160	3050	1650	12
13	1500	2300	5270	2420	2010	1850	1940	4210	4530	3710	3040	1670	13
14	1470	2250	5280	2420	1780	1650	2240	3870	4520	3760	3030	1650	14
15	1460	2230	5320	2440	1570	1530	2480	3580*	4500	3830	3050	1640	15
16	1510	2250	5280	2440	1880	1480	2790	2830	4540	4040	3070	1620	16
17	1500	2260	5280	2360	2410	1460	2760	2730	4780	4060	3090	1670	17
18	1490	2290	5280	2130	2500	1450	2750	2740	5090	4520	3030	1690	18
19	1500	2280	5280	1920	2740	1480	2760	3380	5070	4650	3060	1670	19
20	1490	2310	5290	1710	3930	1480	2800	3790	5070	4640	2620	1650	20
21	1480	2300	5310	1580	4610*	1460	2780	3800	5090	4640	2550*	1620	21
22	1490	2300	5320	1580	4630	1460	2790	3830	5050	4490	2550	1610	22
23	1500	2290	5280	1580	4550	1460	2340	4040	4990	4160	2550	1620	23
24	1500	2350	5350	1580	4510	1470	2230	4630	4540	4150	2550	1670	24
25	1500	2300	5380	1580	4500	1450	2190	4890	3990	4130	2530	1710	25
26	1520	2290	5320	1600	4450	1520	2210	4890	3960	4110	2510	2130	26
27	1490	2370	4470	1580	3660	1490	2650	4890	3950	4100	2520	2470	27
28	1500	2380	3700	1580	2700	1480	3170	5130	3960	4040	2500	2510	28
29	1510	2310	3620	1580	1480	1480	3500	5480	3930	4080	2520	2530	29
30	1510	2320	3600	1970	1500	1500	3870	5510	3950	4060	2490	2530	30
31	1500		3590	2060*		1490		5530		4040	2280		31
MONTHLY													
MEAN	1670	2227	4955	2255	2971	1819	2193	4288	4813	3904	3026	1826	
MAX	2370	2380	5500	3590	4630	2420	3870	5530	5530	4650	4040	2530	
MIN	1460	1680	2950	1580	1570	1450	1430	2730	3930	2910	2280	1610	
ACFT	102700	132500	304700	138700	165000	111900	130500	263700	286400	240100	186100	108700	

MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85				INSTANTANEOUS MINIMUM FLOW, 1984-85				TOTAL
FLOW	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	ACRE FEET
2998	May 30	1745	5620	77.20	October 17	1115	1350	74.88	2171000

REMARKS:

Station is located 2.7 miles east of Gridley on Oroville-Gridley Highway. Gage is located on the right bank upstream from highway bridge.

Period of record for discharge is 1944 to date. Gage heights only were published prior to 1944.

Prior to 1963, flows were tabulated excluding the left bank overflow. Flows have been regulated by Oroville dam releases since 1967.

The datum for this station from 1944 to present is -2.90, NGVD.

FOR PERIOD OF RECORD BEGINNING 1929:

	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	151000	102.25	December 23, 1955	NR
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A81810 MIDDLE CREEK NEAR UPPER LAKE

LOCATION: LAT 39-11-00, LONG 122-54-36, T15N, R10W, SEC. 01, MD B&M LAKE COUNTY

DRAINAGE AREA: 47.1 SQ MILES

HYDROLOGIC AREA: A-04.D5

WATER YEAR	OCTOBER	1984	through	SEPTEMBER	1985								
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1		0.0	100	23	7.0	1.4	185	12					1
2		0.0	101	20	9.3	0.8	150	9.1					2
3		0.0	118	18	8.5	0.3	123	7.5					3
4		0.0	93	20*	7.2	0.1	105*	7.5					4
5		0.0	91	22	8.5	4.3	90	7.2					5
6		0.0	75	21	8.7*	13	79	6.9					6
7		0.0	65	26	90	39*	70	5.6					7
8	N	0.0*	58	26	724	39	63	7.0*	N	N	N	N	8
9		0.0	53	23	232	41	58	8.9					9
10	O	0.0	82	22	141	172	53	7.5	O	O	O	O	10
11		44	86	19	108	136	49	7.3					11
12		182	72	19	94	93	45	6.8					12
13		357	63	16	81	77	42	5.8					13
14		105	58	15	68	64	39	4.9					14
15		75	67	12	60	56	37	3.4					15
16	F	175	64	10	54	52	36	1.9	F	F	F	F	16
17		102	57	12	49	47	34	0.6					17
18	L	120	53	16	44	45	33	0.0	L	L	L	L	18
19		76	48	15	41	41	30	0.0					19
20	O	62	44	14	38	37	30	0.0	O	O	O	O	20
21	W	52	42	13	34	35	32	0.0	W	W	W	W	21
22		41	39	12	32	34	28	0.0					22
23		38	38	12	30	33	22	0.0					23
24		203	36	11	28	40	19	0.0					24
25		103	34	10	23	34	19	0.0					25
26		70	38	9.6	8.0	116	18	0.0					26
27		239	37	9.5	4.2	258	18	0.0					27
28		337	33	10	2.8	234	16	0.0					28
29		185	31	9.9		208	14	0.0					29
30		126	25	8.5		208	13	0.0					30
31			24	7.5		215		0.0					31

MONTHLY													
MEAN	0.0	89.7	58.9	15.5	72.7	76.6	51.7	3.5	0.0	0.0	0.0	0.0	
MAX	0.0	357	118	26	724	258	185	12	0.0	0.0	0.0	0.0	
MIN	0.0	0.0	24	7.5	2.8	0.1	13	0.0	0.0	0.0	0.0	0.0	
ACFT	0	5340	3620	956	4037	4709	3074	218	0	0	0	0	
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85				INSTANTANEOUS MINIMUM FLOW, 1984-85				TOTAL				
FLOW	DATE				DATE				ACRE FEET				
30.3	February 8 0530 1280 08.78				October 1 0015 0.0 05.10				21954				

REMARKS:

Station located at Rancheria Road bridge, 1.3 miles north of Upper Lake. Tributary to Clear Lake.

Flow affected by upstream diversion.

Bottom control structure installed October 18, 1983.

Period of record for discharge is October 1948 to September 1953, March 1959 to September 1959, August 1962 to date. Period of record for gage height is October 1948 to date.

The datum for this station from 1959 to 1962 is 1353.60, USGS.
The datum for this station from 1962 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1959:

	FLOW	GAGE		
	CFS	HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	6800E	14.75	December 22, 1964	1210
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A85701 KELSEY CREEK AT GLENBROOK
LOCATION: LAT 38-51-07, LONG 122-45-23, T12N, R08W, SEC. 33, MD B&M LAKE COUNTY
DRAINAGE AREA: 6.7 SQ MILES HYDROLOGIC AREA: A-04.D4

WATER YEAR DAY	OCT	OCTOBER NOV	1984 DEC	through JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	3.8	4.8	16	7.8	5.4	5.6	14	4.6	3.6	2.5	1.9*	1.6	1
2	3.8	11	33	7.5	5.2	5.5	13	4.5	3.8	2.4	1.8	1.8	2
3	3.8*	6.1	26	7.4*	5.1	5.5	12	4.5	3.6	2.3	1.7	1.9	3
4	3.7	5.2	19	7.3	5.0	5.6	11*	4.5	4.0	2.2	1.8	1.8	4
5	3.7	5.0	17*	7.1	4.9	6.0	9.9	4.3	3.3*	2.3	1.7	1.9*	5
6	3.8	7.5	15	7.0	5.0*	6.7	9.6	4.3	3.1	2.1	1.8	1.8	6
7	3.9	6.8	13	13	36	7.7*	9.2	4.3	3.1	2.3	1.7	2.5	7
8	3.9	8.9*	12	9.5	132	9.2	8.8	4.2*	3.0	2.4*	1.6	3.3	8
9	3.8	6.2	12	9.3	31	11	8.5	4.3	2.9	2.2	1.5	3.4	9
10	7.3	11	34	8.7	20	67	7.8	4.4	2.8	2.2	1.6	2.7	10
11	5.6	20	20	8.1	16	27	7.4	4.4	2.7	2.2	1.6	2.6	11
12	4.2	70	16	7.8	14	19	7.2	4.2	2.7	2.2	1.6	2.5	12
13	4.1	71	14	7.5	12	15	6.9	4.0	2.6	2.1	1.7	2.5	13
14	4.1	17	12	7.2	10	13	6.7	3.9	2.7	2.0	1.4	2.5	14
15	4.0	28	14	7.0	9.7	12	6.6	3.9	2.7	2.0	1.5	2.4	15
16	6.4	45	12	6.6	9.1	11	6.5	3.8	2.6	2.0	1.6	2.3	16
17	5.0	19	11	6.4	8.4	10	6.4	3.9	2.6	2.0	1.6	2.3	17
18	4.6	17	11	6.3	8.0	9.6	6.3	3.9	2.6	1.9	1.8	2.4	18
19	4.8	12	10	6.2	7.6	9.0	6.0	3.7	2.5	1.9	1.7	2.5	19
20	4.5	12	9.6	6.1	7.3	8.5	6.1	3.5	2.6	2.1	1.7	2.3	20
21	4.4	10	9.1	6.0	6.9	8.2	6.5	3.5	2.5	2.2	1.6	2.3	21
22	4.3	9.3	8.7	5.9	6.6	8.0	6.0	3.5	2.5	2.1	1.6	2.2	22
23	4.2	9.1	8.5	5.8	6.4	7.7	5.7	3.5	2.6	2.0	1.6	2.2	23
24	4.2	22	8.3	5.7	6.2	8.3	5.4	3.4	2.6	1.9	1.5	2.2	24
25	4.2	12	8.2	5.6	6.1	7.6	5.3	3.3	2.4	1.8	1.5	2.3	25
26	4.3	11	9.8	5.6	5.9	48	5.4	3.5	2.4	1.9	1.5	2.5	26
27	4.5	129	9.8	5.5	5.7	43	5.1	3.8	2.4	1.9	1.5	2.5	27
28	4.8	55	9.1	5.5	5.6	29	5.2	3.9	2.4	1.8	1.6	2.5	28
29	5.1	27	8.5	5.5		20	5.1	3.9	2.4	2.0	1.5	2.6	29
30	5.0	19	8.3	5.5		17	4.9	3.8	2.4	2.0	1.6	2.5	30
31	4.8		8.2	5.4		15		3.6		2.0	1.5		31

MONTHLY

MEAN	4.5	22.9	13.6	7.0	14.3	15.3	7.5	4.0	2.8	2.1	1.6	2.4
MAX	7.3	129	34	13	132	67	14	4.6	4.0	2.5	1.9	3.4
MIN	3.7	4.8	8.2	5.4	4.9	5.5	4.9	3.3	2.4	1.8	1.4	1.6
ACFT	275	1362	839	428	795	944	445	244	167	129	100	140

MEAN FLOW	INSTANTANEOUS DATE	MAXIMUM FLOW TIME	1984-85 G.H.	INSTANTANEOUS DATE	MINIMUM FLOW TIME	1984-85 G.H.	TOTAL ACRE FEET
8.1	November 27	1245	442 08.36	August 09	2015	1.1 4.83	5869

REMARKS:

Station located approximately 300 feet upstream from Bottle Rock Road crossing, 3.0 miles northwest of Cobb. Tributary to Clear Lake.

Period of record for discharge is December 1980 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1981 to present is 2290.00, USCGS.

FOR PERIOD OF RECORD BEGINNING 1980:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAUGE HEIGHT	DATE	TIME
	1690	10.82	January 26, 1983	1800
	Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A85710 ALDER CREEK AT GLENBROOK

LOCATION: LAT 38-51-06, LONG 122-45-24, T12N, R08W, SEC. 33, MD B&M LAKE COUNTY

DRAINAGE AREA: 3.0 SQ MILES

HYDROLOGIC AREA: A-04.D4

WATER DAY	YEAR OCT	OCTOBER NOV	1984 DEC	through JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	1.1	.5	8.9	2.9	1.9	3.1	8.0	2.4	1.4	.6	.8	.5	1
2	1.1	3.9	11	2.8	2.1	3.0	7.4	2.4	1.4	.6	.6*	.6	2
3	1.1*	1.1	12	2.7*	2.0	3.0	6.8	2.3	1.3	.7	.5	.6	3
4	1.1	.6	9.7	2.5	1.9	3.2	6.5*	2.3	1.3	.6	.4	.5	4
5	1.0	.6	8.9*	2.5	1.9	3.3	6.1	2.2	1.3*	.6	.4	.6	5
6	1.0	1.8	7.7	2.4	1.9*	3.6	5.8	2.2	1.2	.6	.5	.7*	6
7	1.0	1.1	6.9	4.0	11	4.0*	5.5	2.1	1.2	.6	.5	1.4	7
8	.9	2.4*	6.2	3.4	56	4.5	5.3	2.1*	1.1	.5*	.5	2.3	8
9	.9	1.0	5.8	3.4	18	5.5	5.0	2.2	1.0	.5	.5	2.0	9
10	2.2	2.9	13	3.2	12	29	4.8	2.2	.9	.6	.5	1.3	10
11	1.5	8.2	11	3.1	9.0	19	4.6	2.1	1.0	.7	.4	1.0	11
12	.9	29	9.0	2.9	7.6	13	4.4	2.1	.9	.6	.5	1.0	12
13	.8	30	7.4	2.8	6.7	11	4.2	2.0	.9	.6	.6	1.0	13
14	.8	7.6	6.6	2.6	5.9	9.1	4.1	2.0	.8	.5	.5	.9	14
15	.8	8.4	6.8	2.5	5.4	7.8	4.0	1.9	.8	.5	.6	.9	15
16	2.3	16	6.1	2.5	5.1	6.9	3.9	2.0	.8	.5	.6	.9	16
17	1.1	8.8	5.4	2.4	4.8	6.2	3.9	2.0	.8	.5	.6	.9	17
18	.8	7.4	5.1	2.4	4.6	5.8	3.6	1.9	.8	.5	.7	.9	18
19	.9	5.3	4.7	2.3	4.4	5.3	3.5	1.7	.7	.5	.6	.8	19
20	.8	4.7	4.4	2.2	4.2	5.1	3.5	1.7	.7	.7	.6	.8	20
21	.6	3.8	4.1	2.2	4.0	4.8	3.4	1.7	.7	.7	.5	.8	21
22	.6	3.3	3.8	2.1	3.8	4.6	3.1	1.6	.8	.5	.5	.7	22
23	.5	3.2	3.6	2.1	3.6	4.4	3.1	1.5	.7	.5	.5	.7	23
24	.5	7.7	3.5	2.1	3.5	4.7	2.9	1.5	.7	.4	.4	.7	24
25	.6	5.0	3.3	2.1	3.5	4.2	2.9	1.5	.7	.4	.4	.7	25
26	.6	4.1	4.2	2.1	3.3	16	2.8	1.5	.7	.5	.4	.8	26
27	.6	43	3.9	2.1	3.3	21	2.7	1.5	.6	.5	.5	.9	27
28	.8	31	3.6	2.1	3.2	18	2.6	1.6	.6	.4	.5	.9	28
29	.7	15	3.4	1.9	13	2.6	2.6	1.6	.7	.6	.5	.8	29
30	.6	11	3.3	1.9	11	2.5	2.5	1.4	.6	.7	.5	.9	30
31	.6		3.2	1.9		9.1		1.4		.8	.5		31
MONTHLY													
MEAN	.9	8.9	6.3	2.5	7.0	8.5	4.3	1.9	.9	.6	.5	.9	
MAX	2.3	43	13	4.0	56	29	8.0	2.4	1.4	.8	.8	2.3	
MIN	.5	.5	3.2	1.9	1.9	3.0	2.5	1.4	.6	.4	.4	.5	
ACFT	57	532	390	155	386	520	257	116	54	35	32	55	

MEAN FLOW	INSTANTANEOUS DATE	MAXIMUM FLOW, 1984-5	TIME	FLOW G.H.	INSTANTANEOUS DATE	MINIMUM FLOW, 1984-5	TIME	FLOW G.H.	TOTAL ACRE FEET
3.6	November 27	1315	121	3.88	July 08	2045	0.0	1.63	2589

REMARKS:

Station located 200 feet upstream from confluence with Kelsey Creek, 3.1 miles northwest of Cobb. Tributary to Clear Lake via Kelsey Creek.

Station installed October 1980. Period of record for discharge is October 1982 to date. Period of record for gage height is same as discharge.

FOR PERIOD OF RECORD BEGINNING 1983:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAUGE HEIGHT	DATE	TIME
	344	5.73	January 26, 1983	1715
	Not Available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A85005 KELSEY CREEK BELOW KELSEYVILLE

LOCATION: LAT 39-00-34, LONG 122-50-14, T13N, R09W, SEC. 03, MD B&M

LAKE COUNTY

DRAINAGE AREA: 44.3 SQ MILES

HYDROLOGIC AREA: A-04.D4

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	0.0	0.0	60	23	13	18	73	11	0.0	0.0	0.0*	0.0	1
2	0.0	0.0	63	23*	13	18	65	11	0.0	0.0	0.0	0.0	2
3	0.0	9.9	88	22	13	18	59*	10	0.0	0.0	0.0	0.0	3
4	0.0	1.2	60*	21	12	18	53	10	0.0*	0.0	0.0	0.0	4
5	0.0	0.0	56	21	12*	22	48	10	0.0	0.0	0.0	0.0*	5
6	0.0	0.1	48	20	12	29*	44	8.8	0.0	0.0	0.0	0.0	6
7	0.0	2.8*	42	28	36	43	41	8.3*	0.0	0.0	0.0	0.0	7
8	0.0	8.8	39	30	1240	44	38	8.1	0.0	0.0	0.0	0.0	8
9	0.0	8.5	36	25	170	58	36	7.4	0.0	0.0*	0.0	0.0	9
10	0.0	9.9	85	25	90	427	34	7.2	0.0	0.0	0.0	0.0	10
11	0.0	65	93	23	63	212	31	7.1	0.0	0.0	0.0	0.0	11
12	0.0	172	62	22	51	113	30	6.3	0.0	0.0	0.0	0.0	12
13	0.0	495	51	21	43	85	28	5.6	0.0	0.0	0.0	0.0	13
14	0.0	74	45	20	37	69	27	4.9	0.0	0.0	0.0	0.0	14
15	0.0	55	45	20	33	58	25	4.3	0.0	0.0	0.0	0.0	15
16	0.0	121	43	19	31	50	25	3.7	0.1	0.0	0.0	0.0	16
17	0.0	65	37	18	28	44	24	3.7	0.0	0.0	0.0	0.0	17
18	0.0	68	35	18	26	41	23	3.1	0.0	0.0	0.0	0.0	18
19	0.0	45	33	18	25	37	21	1.9	0.0	0.0	0.0	0.0	19
20	0.0	41	31	17	23	34	21	0.8	0.0	0.0	0.0	0.0	20
21	0.0	37	29	17	22	31	22	0.2	0.0	0.0	0.0	0.0	21
22	0.0	31	27	16	21	30	20	0.0	0.0	0.0	0.0	0.0	22
23	0.0	29	26	16	20	28	18	0.0	0.0	0.0	0.0	0.0	23
24	0.0	64	25	16	20	31	17	0.0	0.0	0.0	0.0	0.0	24
25	0.0	47	25	15	19	28	16	0.0	0.0	0.0	0.0	0.0	25
26	0.0	38	33	15	19	254	15	0.0	0.0	0.0	0.0	0.0	26
27	0.0	499	35	14	19	272	15	0.0	0.0	0.0	0.0	0.0	27
28	0.0	327	30	14	18	203	14	0.0	0.0	0.0	0.0	0.0	28
29	0.0	113	27	14		128	13	0.0	0.0	0.0	0.0	0.0	29
30	0.0	76	25	13		99	12	0.0	0.0	0.0	0.0	0.0	30
31	0.0		25	13		83		0.0		0.0	0.0		31
MONTHLY													
MEAN	0.0	83.4	43.8	19.3	76.0	84.7	30.3	4.3	0.0	0.0	0.0	0.0	
MAX	0.0	499	93	30	1240	427	73	11	0.1	0.0	0.0	0.0	
MIN	0.0	0.0	25	13	12	18	12	0.0	0.0	0.0	0.0	0.0	
ACFT	0	4965	2696	1184	4223	5207	1801	265	0	0	0	0	
MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-85											
FLOW	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.					TOTAL
28.1	February 08	0630	3180	40.42	October 01	0015	0.0	26.71					20341

REMARKS:

Station located approximately 500 feet upstream of Soda Bay Road bridge, 3.5 miles north of Kelseyville. Tributary to Clear Lake.

Period of record for discharge is November 1980 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1981 to present is 1300.0, USCGS.

FOR PERIOD OF RECORD BEGINNING 1980:

INSTANTANEOUS MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR	CFS	HEIGHT		
	9280	48.94	January 26, 1983	1715
	Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A85610 HIGH VALLEY CREEK ABOVE KELSEY CREEK

LOCATION: LAT 38-52-07, LONG 122-47-36, T12N, R08W, SEC. 19, MD B&M

LAKE COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-04.04

WATER DAY	YEAR OCT	OCTOBER NOV	1984 DEC	through JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	0.5	1.1	9.1	3.2	NR	2.6	10	2.2	1.3	0.5	0.4*	0.3	1
2	0.4	4.1	10	3.0	NR	2.6	8.8	2.2	1.3	0.5	0.4	0.3	2
3	0.4*	1.3	9.1	2.8*	NR	2.5	7.8	2.1	1.2	0.5	0.4	0.3	3
4	0.5	0.9	7.3	2.7	NR	2.6	7.0*	2.1	1.2	0.5	0.3	0.3	4
5	0.5	0.8	6.9*	2.6	NR	3.0	6.3	2.0	1.1*	0.5	0.3	0.3	5
6	0.5	1.5	5.7	NR	1.7*	3.6	5.8	1.9	1.1	0.4	0.3	0.3*	6
7	0.5	1.3	5.1	NR	21	4.2	5.4	1.9	1.0	0.4	0.3	0.5	7
8	0.5	3.0*	4.6	NR	146 E	5.8	5.0	1.8*	1.0	0.4	0.3	1.0	8
9	0.5	1.8	4.4	NR	33	9.0	4.7	1.8	1.0	0.4	0.4	0.8	9
10	1.1	5.1	18	NR	18	70	4.4	1.8	0.9	0.4	0.3	0.5	10
11	0.8	14	16	NR	12	40	4.2	1.7	0.9	0.4	0.3	0.4	11
12	0.6	52	12	NR	9.3	23	3.9	1.7	0.8	0.4	0.3	0.5	12
13	0.6	64 E	8.8	NR	7.7	16	3.7	1.7	0.8	0.4	0.3	0.5	13
14	0.6	12	7.4	NR	6.5	12	3.6	1.6	0.8	0.4	0.3	0.5	14
15	0.6	9.5	8.1	NR	5.7	9.8	3.5	1.5	0.8	0.4	0.3	0.5	15
16	1.7	20	6.5	NR	5.2	8.1	3.4	1.6	0.8	0.4	0.3	0.5	16
17	1.0	11	5.7	NR	4.7	7.0	3.4	1.6	0.7	0.4	0.3	0.5	17
18	0.8	10	5.4	NR	4.3	6.2	3.2	1.6	0.7	0.4	0.4	0.5	18
19	0.8	6.4	4.9	NR	4.0	5.4	3.1	1.5	0.7	0.4	0.4	0.5	19
20	0.8	6.4	4.3	NR	3.8	5.0	3.1	1.4	0.7	0.4	0.4	0.5	20
21	0.7	4.8	3.9	NR	3.5	4.6	3.2	1.3	0.7	0.5	0.3	0.5	21
22	0.7	3.9	3.6	NR	3.2	4.2	3.0	1.3	0.6	0.4	0.3	0.4	22
23	0.7	3.7	3.5	NR	3.1	4.0	2.8	1.4	0.6	0.4	0.3	0.4	23
24	0.7	11	3.3	NR	3.0	4.5	2.6	1.4	0.6	0.3	0.3	0.4	24
25	0.7	6.5	3.3	NR	2.9	3.9	2.6	1.4	0.6	0.3	0.3	0.5	25
26	0.8	5.0	4.6	NR	2.9	37	2.6	1.3	0.6	0.3	0.3	0.5	26
27	0.8	84 E	4.4	NR	2.8	47	2.5	1.3	0.6	0.3	0.3	0.5	27
28	0.9	55	3.9	NR	2.6	38	2.4	1.4	0.6	0.3	0.3	0.6	28
29	1.0	21	3.5	NR	23	23	2.3	1.4	0.5	0.4	0.3	0.5	29
30	1.0	13	3.5	NR	16	23	2.3	1.3	0.5	0.4	0.3	0.6	30
31	1.1		3.4	NR		13		1.3		0.4	0.2		31
MONTHLY													
MEAN	0.7	14.5	6.5	NR	NR	14.0	4.2	1.6	0.8	0.4	0.3	0.5	
MAX	1.7	84 E	18	NR	NR	70	10	2.2	1.3	0.5	0.4	1.0	
MIN	0.4	0.8	3.3	NR	NR	2.5	2.3	1.3	0.5	0.3	0.2	0.3	
ACFT	45	861	397	NR	NR	860	251	100	49	25	20	29	
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85												
FLOW	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	TOTAL
NR				NR	SEPTEMBER 6	0915	0.0	17.00					ACRE FEET
													NR

REMARKS:

Station located approximately 300 feet upstream from confluence with Kelsey Creek, 6.0 miles northwest of Cobb. Tributary to Kelsey Creek.

Period of record for discharge is November 1980 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1981 to present is 2000.00, USCGS.

FOR PERIOD OF RECORD BEGINNING 1980:

INSTANTANEOUS	MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR		CFS	HEIGHT		
		1820	22.61	January 26, 1983	1700
		Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A81250 BEAR CREEK NEAR RUMSEY

LOCATION: LAT 38-56-43, LONG 122-20-43, T13N, R04W, SEC. 30, MD B&M COLUSA COUNTY

DRAINAGE AREA: 99.9 SQ MILES

HYDROLOGIC AREA: A-04.B0

WATER YEAR	OCTOBER	1984	through	SEPTEMBER	1985										
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY		
1	1.3	2.3	23	14	8.6	13	32	7.3	4.4	1.1	0.9*	0.8	1		
2	1.4*	2.3	21	14*	8.4	13	27	7.3	4.4	1.1	1.0	0.8	2		
3	1.5	2.7	165	14	7.9	12	25*	6.9	4.4	1.1	0.9	0.9	3		
4	1.6	3.1	66*	13	7.8	12	22	7.1	4.3*	1.0	0.8	1.0	4		
5	1.7	2.5	42	13	7.3*	14	19	7.2	3.9	0.9	0.7	1.0*	5		
6	1.7	2.9*	33	13	7.2	23*	18	6.9	3.5	0.9	0.7	1.0	6		
7	1.7	3.2	23	21	10	31	17	6.7*	3.3	0.8	0.7	1.0	7		
8	1.7	6.2	19	28	945	20	16	6.5	3.2	0.8	0.6	1.5	8		
9	1.7	5.9	16	18	168	16	15	6.3	3.2	0.7	0.6	1.8	9		
10	2.0	4.2	135	16	83	65	15	6.3	2.8	0.7	0.6	2.1	10		
11	3.2	11	87	14	53	130	14	6.7	2.3	0.8	0.6	1.8	11		
12	2.8	10	43	13	41	54	14	7.2	2.0	1.0	0.6	1.3	12		
13	2.1	149	29	13	34	31	13	6.7	1.9	1.1	0.5	1.3	13		
14	1.9	66	23	13	29	23	13	6.2	1.8	1.0	0.5	1.2	14		
15	1.8	16	23	12	25	19	12	5.7	1.8	0.9E	0.5	1.3	15		
16	2.7	103	22	12	24	17	12	5.5	1.8	0.9E	0.6	1.2	16		
17	4.4	93	18	11	22	15	12	5.4	1.6	0.9E	0.6	1.2	17		
18	3.4	38	17	11	20	18	12	5.4	1.5	0.9E	0.8	1.1	18		
19	2.8	18	17	11	18	19	12	5.4	1.4	0.9E	0.9	1.1	19		
20	2.6	12	16	11	17	15	11	5.1	1.4	0.9E	1.0	1.0	20		
21	2.4	12	15	10	16	14	12	5.0	1.4	0.9E	0.9	1.0	21		
22	2.3	7.4	14	10	15	13	13	4.7	1.3	0.9E	0.9	1.0	22		
23	2.1	5.7	14	9. 8	15	13	12	4.5	1.3	0.9E	0.8	1.0	23		
24	2.0	24	15	9. 5	14	13	11	4.3	1.3	0.9E	0.8	1.0	24		
25	1.8	38	14	9. 2	14	13	9.9	4.3	1.1	0.9E	0.8	1.0	25		
26	1.9	13	17	9.1	14	58	8.1	4.3	1.1	0.9E	0.8	1.0	26		
27	1.9	261	23	9.0	14	232	7.3	4.3	1.1	0.9E	0.7	1.0	27		
28	1.9	328	19	8.9	13	198	6.8	4.5	1.2	0.9E	0.7	1.0	28		
29	2.2	93	16	8.8		90	6.7	4.8	1.2	0.9E	0.6	1.1	29		
30	2.4	41	15	8.4		53	7.1	4.7	1.0	0.9E	0.6	1.1	30		
31	2.4		15	8.0		40		4.6		0.9E	0.8		31		
MONTHLY															
MEAN	2.2	45.8	32.7	12.4	59.2	41.8	14.2	5.7	2.2	0.9E	0.7	1.2			
MAX	4.4	328	165	28	945	232	32	7.3	4.4	1.1	1.0	2.1			
MIN	1.3	2.3	14	8.0	7.2	12	6.7	4.3	1.0	0.7	0.5	0.8			
ACFT	133	2726	2013	765	3275	2573	843	353	133	56E	45	69			
MEAN INSTANTANEOUS MAXIMUM FLOW, 1984-85 INSTANTANEOUS MINIMUM FLOW, 1984-85 TOTAL															
FLOW	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	ACRE FEET						
17.9	February 08	0700	2340	6.20	August 13	0615	0.5	0.36	12984						

REMARKS:

Station located 7.3 miles northwest of Rumsey, 1.4 miles above mouth.
Tributary to Cache Creek.

Station was destroyed on January 26, 1983 and was re-established on September 30, 1983.

Period of record for discharge is September 1955 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1955 to present is 0.0, local.

FOR PERIOD OF RECORD BEGINNING 1955:

FLOW	GAGE	DATE	TIME
CFS	HEIGHT		
INSTANTANEOUS MAXIMUM	9780E 11.44	January 23, 1963	2245
AVERAGE/YEAR	Not Available		

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A81135 CACHE CREEK AT RUMSEY

LOCATION: LAT 38-53-25, LONG 122-14-13, T12N, R03W, SEC. 18, MD B&M YOLO COUNTY

DRAINAGE AREA: 964.0 SQ MILES

HYDROLOGIC AREA: A-02.CO

WATER YEAR	OCTOBER	NOV	1984 through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY	
1	121	20	273	180	56	68	215	692	579	814	526	279	1	
2	109	20	261	103	59	65	199	875	555	802	515	286	2	
3	108	22	451	61	60	65	172	837	578	802	501	287	3	
4	95	26	337	58	59	63	131	841	577	792	490	280	4	
5	59	23	291	57	58	67	164	855	599	810	486	305	5	
6	60	25	278	56	57	102	201	774	708	821	485	300	6	
7	61	27*	343	70	73	155	194	788	697	811	489	298	7	
8	60	44	251	109	2040*	120	187	754	639	794	526	296	8	
9	58	60	237	89	564	100	266*	712	658	811	499	296	9	
10	60	38	380	83	321	182	375	701	696	829	477	268	10	
11	73	130	349	70	251	368	472	657	685	821	450	245	11	
12	37	155	290	62	219	231	543	590	831	807	457	262	12	
13	30	439	267	61	198	185*	565	571	823	799	477*	244	13	
14	30	266	252	63	181	150	581	563	885	791	459	324	14	
15	30	162	250	60	158	124	576	556	896	787	434	330	15	
16	23	340	253	58*	143	107	556	573	862	762	416	333	16	
17	27	279	242	56	132	96	534	624	831	740#	398	307	17	
18	25	193	216	55	119	97	530	625	783	738	386	239	18	
19	23	134	207	55	109	90	523	618	784	729	381	218	19	
20	23	98	201	56	100	80	527	594	798	714	363	221	20	
21	21	85	200	57	92	72	562	597	814	695	377	214	21	
22	21	64	190	56	86	67	572	623	853	682	375	140	22	
23	21*	53	190	55	80	63	561	639	836	656	375	89	23	
24	19*	119	189	55	77	101	567	647	811	618	355	78	24	
25	16	220	188	55	74	148	577	625	782	594	334	64	25	
26	14	118	195	54	72	236	569	627	787	617	325	51	26	
27	14	582	204	55	71	561	556	627	809	601	323	42	27	
28	17	1030*	200	57	69	433	585	622	828	595	309	45	28	
29	18	411	195	57	297	607	594	809	599	310	40	29	29	
30	20	308	190	57	243	598	569	806	588	290	20	30	30	
31	20		184	56		222		567		544	285		31	
MONTHLY														
MEAN	42.4	183	250	67.0	199	160	442	662	753	728	415	213		
MAX	121	1030	451	180	2040	561	607	875	896	829	526	333		
MIN	14	20	184	54	56	63	131	556	555	544E	285	20		
ACFT	2604	10890	15380	4118	11060	9834	26310	40730	44820	44750	25530	12700		

MEAN FLOW	DATE	INSTANTANEOUS FLOW	MAXIMUM FLOW	1984-85	DATE	INSTANTANEOUS FLOW	MINIMUM FLOW	1984-85	TOTAL
344	February 08	0930	4080	15.14	October 27	0015	12	10.65	ACRE FEET
									248726

REMARKS:

Station is located on Downstream side of Arbuckle Road Bridge, 800 feet north of Rumsey.

Prior to 1976, station was operated as a high flow warning site. Cache Creek was previously measured at station A81200 (Cache Creek Above Rumsey).

Flows are regulated by Indian Creek Reservoir.

Period of record for discharge is December 1976 to date.

The datum for this station from 1976 to present is 0.00, LOCAL.

FOR PERIOD OF RECORD BEGINNING 1945:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAGE HEIGHT	DATE	TIME
	74800E	27.88	January 26, 1983	NR
	Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A95010 POPE CREEK NEAR POPE VALLEY

LOCATION: LAT 38-37-48, LONG 122-19-52, T09N, R04W, SEC. 17, MD B&M NAPA COUNTY

DRAINAGE AREA: 78.3 SQ MILES HYDROLOGIC AREA: A-03.A4

WATER DAY	YEAR OCT	OCTOBER NOV	1984 through DEC	SEPTEMBER JAN	1985 FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	0.0	0.0	51	NR	18	28	55						1
2	0.0	0.7	65	NR	18	28	48						2
3	0.0	0.9	233	NR	18	28	42						3
4	0.0	0.3	62	NR	18	28	NR						4
5	0.0	0.1	48	NR	17	28	NR						5
6	0.0	1.5*	43*	NR	17	29	NR						6
7	0.0	3.4	47	NR	144	67	NR						7
8	0.0	11	43	NR	3140	57	NR	N	N	N	N	N	8
9	0.0	12	40	NR	464	40	NR						9
10	1.6	13	98	NR	159	68	NR	O	O	O	O	O	10
11	4.2	102	57	27	90	NR	NR						11
12	0.5	113	45	20	72	NR	NR						12
13	0.2	414	47	21	62	NR	NR						13
14	0.1	38	42	29	54	NR	NR						14
15	0.0	57	43	28	* 48	NR	NR	R	R	R	R	R	15
16	5.3	507	48	26	44	NR	NR	E	E	E	E	E	16
17	2.2*	79	40	24	40	NR	NR						17
18	0.4	72	37	24	36	NR	NR	C	C	C	C	C	18
19	0.2	42	35	22	33	NR	NR						19
20	0.2	33	32	22	31	NR	NR	O	O	O	O	O	20
21	0.1	29	30	21	29	NR	NR	R	R	R	R	R	21
22	0.1	23	28	20	29	NR	NR						22
23	0.1	20	27	20	29	NR	NR	D	D	D	D	D	23
24	0.0	192	26	20	29	NR	NR						24
25	0.0	61	25	19	29	NR	NR						25
26	0.0	40	29	19	29	NR	NR						26
27	0.0	568	NR	19	29	725	NR						27
28	0.0	650	NR	19	28	454	NR						28
29	0.1	117	NR	19		159	NR						29
30	0.1	58	NR	18		91	NR						30
31	0.0		NR	18		65							31

MONTHLY

MEAN	.5	109	NR	NR	170	NR	NR	NR	NR	NR	NR	NR
MAX	5.3	650	NR	NR	3140	NR	NR	NR	NR	NR	NR	NR
MIN	0.0	0.0	NR	NR	17	NR	NR	NR	NR	NR	NR	NR
ACFT	31	6462	NR	NR		NR	NR	NR	NR	NR	NR	NR

MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-85	INSTANTANEOUS	MINIMUM FLOW, 1984-85	TOTAL
FLOW	DATE	TIME FLOW G.H.	DATE	TIME FLOW G.H.	ACRE FEET
NR		NR	October 1	0015 0.0 2.04	NR

REMARKS:

Station is located on left bank of Pope Creek, 0.2 miles upstream from Lake Berryessa, 5.2 miles east of Pope Valley.

Tributary to Lake Berryessa. Maximum discharge recorded on January 31, 1963 was estimated by extending rating curve above 7700 cfs.

Station discontinued on 04/04/85.

Period of record for discharge is December 1960 to April 1985.

The datum for this station from 1960 to present is 0.00, LOCAL.

FOR PERIOD OF RECORD BEGINNING 1960:

INSTANTANEOUS MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR	CFS	HEIGHT		
	18000E	19.79	January 31, 1963	NR
	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A02903 SACRAMENTO WEIR SPILL TO YOLO BYPASS

LOCATION: LAT 38-36-25, LONG 121-33-15, T09N, R04E, SEC. 28, MD B&M YOLO COUNTY

DRAINAGE AREA: Not available HYDROLOGIC AREA: A-02.B0

WATER YEAR OCTOBER 1984 through SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8	N	N	N	N	N	N	N	N	N	N	N	N	8
9													9
10	O	O	O	O	O	O	O	O	O	O	O	O	10
11													11
12													12
13													13
14													14
15													15
16	F	F	F	F	F	F	F	F	F	F	F	F	16
17													17
18	L	L	L	L	L	L	L	L	L	L	L	L	18
19													19
20	O	O	O	O	O	O	O	O	O	O	O	O	20
21	W	W	W	W	W	W	W	W	W	W	W	W	21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

MONTHLY

MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACFT	0	0	0	0	0	0	0	0	0	0	0	0

MEAN FLOW	INSTANTANEOUS DATE	MAXIMUM FLOW, 1984-85 TIME	FLOW G.H.	INSTANTANEOUS DATE	MINIMUM FLOW, 1984-85 TIME	FLOW G.H.	TOTAL ACRE FEET
0.0	October 01	0015	0.0 NR	October 01	0015	0.0 NR	0

REMARKS:

Station located 0.5 mile north of Bryte along Highway 16 (River Road). Sacramento Weir diverts flood waters from the Sacramento River in a westerly direction to the Yolo Bypass.

The Sacramento Weir is a fixed weir with 48 removable gates which are used to control Sacramento River flows by diverting floodwaters to Yolo Bypass. Flows computed using Sacramento River above Sacramento Weir gage.

Period of record for discharge is 1926 to date.

The datum for this station is not relevant.

FOR PERIOD OF RECORD BEGINNING 1926:

INSTANTANEOUS MAXIMUM	FLOW CFS	GAGE HEIGHT	DATE	TIME
118000E	32.80	March 26, 1928	NR	
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A00041 DRY CREEK BELOW ROSEVILLE

LOCATION: LAT 38-44-03, LONG 121-17-57, T10N, R06E, SEC. 10, MD B&M PLACER COUNTY

DRAINAGE AREA: Not available HYDROLOGIC AREA: A-05.B1

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	57	36	87	49	48	49	71	29	35	19	29	26	1
2	57	41	97	46	92	88	67	26	61	18	28	26	2
3	46	42	176	46	69	63	57	26	62	17	26	30	3
4	35	37	105	49	57	69	52	26	46	14	24	31	4
5	36	30	90	53	48	92	47	25	32	15	20	30	5
6	35	96	83	55	45	213	48	24	24	14	17	30	6
7	25	88	75*	89	93	378	50	23	20	15	17	32	7
8	22	250	74	97	1040	145*	52	25	20	18	18	54	8
9	21*	98	69	127	NR	108	49	28	20	16	17	108	9
10	42	98	279	122*	NR	191	43	29	19	16	19	81	10
11	140	218	142	78	NR	243	49	34	20*	19	19	66	11
12	71	110	98	69	NR	128	48	34	16	22	16	57	12
13	46	361	85	68	NR	108	43	30	14	24	16	47	13
14	41	110	75	66*	NR	98	40	24	13	21	16*	40	14
15	39	67	108	59	89E*	90	38	24	13	19	16	36	15
16	88	83	152	53	81	81	36	23	12	19	18	29	16
17	110	83	95	49	77	75	45	24	11	20	22	25E*	17
18	77	128	85	55	74	79	60	32	11	19*	34	24E	18
19	73	85	79	55	73	74	55	24	13	18	41	23E	19
20	65	107	75	54	72	71	43	24	19	18	41	22E	20
21	54	187	70	54	64	69	49	20	19	23	24	21E	21
22	55	91	66	55	58	64	58	20	22	25	20	20E	22
23	54	72	67	54	54	63	47	20	24	24	21	19E	23
24	41	300	65	51	52	65	40	21	21	24	18	19E	24
25	38	149	62	50	52	72	37	22	20	21	18	18E	25
26	36	92	60	51	57	129	37	27	18	18	17	18E	26
27	42	167	59	55	53	219	32	32	18	20	15	19	27
28	59	396	58	54	52	135	28	34	17	18	15	27	28
29	69	144	55	64		100	27	46	16	21	19	31	29
30	52	101	50	58		86	27	43	16	24	24	36	30
31	43		50	48		76		33		26	28		31

MONTHLY

MEAN	53.8	129	90.0	62.4	NR	114	45.8	27.5	22.4	19.5	21.7	34.8
MAX	140	396	279	127	NR	378	71	46	62	26	41	108
MIN	21	30	50	46	NR	49	27	20	11	14	15	18
ACFT	3310	7670	5536	3834	NR	6984	2727	1690	1333	1200	1335	2073

MEAN FLOW NR	INSTANTANEOUS DATE	MAXIMUM FLOW, 1984-85 TIME	FLOW, 1984-85 G. H.	INSTANTANEOUS DATE	MINIMUM FLOW, 1984-85 TIME	FLOW, 1984-85 G. H.	TOTAL ACRE FEET NR
	No Record			August 15	0730	9.1 9.59	

REMARKS:

Station located on upstream side of Vernon Street bridge, above Southern Pacific Railroad tracks. Tributary to Sacramento River via back borrow pit of Reclamation District 1000.

Two previous stations have reported Dry Creek flows. Linda Creek near Roseville, A00040 (1949 to 1966), and Dry Creek at Roseville, A00047 (1966 to March 1984).

Reported maximum instantaneous historical flow may have been exceeded during periods of no record.

Period of record for discharge is
Period of record for gage height is

The datum for this station from 1949 to 1966 is 108.00, NGVD. From April 1966 to August 1984 is 0.00, local. From September 1984 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1949:

	FLOW CFS	GAUGE HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	4400	14.02E	October 13, 1962	NA
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A09115 SOUTH FORK PUTAH CREEK NEAR DAVIS
LOCATION: LAT 38-31-02, LONG 121-45-21, T08N, R02E, SEC. 28, MD B&M SOLANO COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-02.B0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	19	19	27	43	52	51							1
2	19	20	28	44	51	32							2
3	21	21	34	45	49	30							3
4	20	22	30	45	49	30*							4
5	20	23	30*	46	48	NR							5
6	20	23	30	46	48	NR							6
7	19	23	30	52	50	NR							7
8	20	27	30	51	576	NR	N	N	N	N	N	N	8
9	20	23*	31	49	150	NR							9
10	21	24	41	52	36	NR	O	O	O	O	O	O	10
11	22	27	38	47	29	NR							11
12	22	27	37	46	28	NR							12
13	19	34	38	46	29	NR							13
14	19	26	36	48	35*	NR							14
15	19	27	37	48	31	NR	R	R	R	R	R	R	15
16	20	36	37	48	30	NR	E	E	E	E	E	E	16
17	23	31	37	48	30	NR							17
18	20	30	38	49	30	NR	C	C	C	C	C	C	18
19	20	31	42	48	30	NR							19
20	20	35	40	47	30	NR	O	O	O	O	O	O	20
21	19	34	39	48	30	NR	R	R	R	R	R	R	21
22	20	35	38	49	30	NR							22
23	21*	37	38	50	30	NR	D	D	D	D	D	D	23
24	18*	43	38	50	29	NR							24
25	17	40	39	50	30	NR							25
26	17	42	40	50	30	NR							26
27	17	49	41	50	31	NR							27
28	18	166	42	51	79	NR							28
29	18	51	42	53		NR							29
30	19	28	42	52		NR							30
31	19		42	52		NR							31
MONTHLY													
MEAN	19.5	35.1	36.5	48.5	60.7	NR	NR	NR	NR	NR	NR	NR	
MAX	23	166	42	53	576	NR	NR	NR	NR	NR	NR	NR	
MIN	17	19	27	43	28	NR	NR	NR	NR	NR	NR	NR	
ACFT	1202	2091	2245	2981	3372	NR	NR	NR	NR	NR	NR	NR	
MEAN FLOW	INSTANTANEOUS	MAXIMUM FLOW, 1984-85	INSTANTANEOUS	MINIMUM FLOW, 1984-5	TOTAL								
NR	DATE	TIME FLOW G.H.	DATE	TIME FLOW G.H.	ACRE FEET								
	February 8	1700 1520 10.08	June 27	2015 0.0 3.70	NR								

REMARKS:

Station is located on downstream side of Davis Road Bridge.

Tributary to Yolo Bypass. The University of California Water Treatment Plant discharges into the channel 100 feet upstream from the gage. Very low flows upstream of treatment plant during summer months.

Period of record for discharge is 1957 to date.

Flows were computed until March 4, 1985. Operation of station after March 4, 1985 records gage height only.

The datum for this station from 1957 to present is 24.57, NGVD.

FOR PERIOD OF RECORD BEGINNING 1957:

INSTANTANEOUS MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR	CFS	HEIGHT	January 24, 1970	NR
	14700	18.48		
	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: A05735 NORTH HONCUT CREEK NEAR BANGOR
LOCATION: LAT 39-20-32, LONG 121-29-25, T17N, R04E, SEC. 11, MD B&M BUTTE COUNTY
DRAINAGE AREA: 47.1 SQ MILES HYDROLOGIC AREA: A-10.F0

WATER YEAR	OCTOBER	1984	through	SEPTEMBER	1985								
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	0.0	NR	60	7.7	7.5	5.9	86	3.6	NR	NR			1
2	0.0	NR	34	7.5	7.4	6.6	79	3.6	NR	0.0			2
3	0.0	NR	42	7.3	7.3	6.9	72	3.5	NR	0.0			3
4	0.0	NR	47	7.2	7.3	6.5	66	3.5	NR	0.0			4
5	0.0	NR	30	7.0	7.2	6.2	54	3.3	NR	0.0			5
6	0.0	3.2	21	6.8	7.1	6.0	32	3.8	NR	0.0			6
7	0.0	3.6	13	7.1	22	83	22	3.6	NR	0.0			7
8	0.0	5.1	10	8.6	844E	92	15	3.3	NR	0.0	N	N	8
9	0.0	6.0	9.8	8.1	347E	76	10	3.2	NR	0.0			9
10	0.2	4.9	52	7.8	219	70	6.3	3.1	NR	0.0	O	O	10
11	0.8	12	83	7.5	170	118	5.9	3.1	NR	0.0			11
12	2.5	11	68	7.2	137	100	5.9	3.0	NR	0.0			12
13	NR	50	44	7.2	110	86	5.9	2.8	NR	0.0			13
14	NR	31	19	7.3	91	78	5.8	2.7	NR	0.0			14
15	NR	9.2	41	7.3	78	71	5.6	NR	NR	0.0			15
16	NR	8.2	154	7.2	69	52	5.2	NR	NR	0.0	F	F	16
17	NR	8.2	116	7.1	62	29	5.2	NR	NR	0.0			17
18	NR	14	85	7.0	45	19	5.1	NR	NR	0.0	L	L	18
19	NR	18	70	6.9	28	14	5.0	NR	NR	0.0			19
20	NR	9.7	52	6.8	19	10	4.8	NR	NR	0.0	O	O	20
21	NR	73	28	6.6	12	7.2	4.5	NR	NR	0.0	W	W	21
22	NR	66	16	6.6	10	6.7	4.6	NR	NR	0.0			22
23	NR	29	11	6.5	9.7	6.4	4.7	NR	NR	0.0			23
24	NR	277E	9.8	6.3	8.8	6.2	4.5	NR	NR	0.0			24
25	NR	124	9.4	6.3	6.6	6.9	4.4	NR	NR	0.0			25
26	NR	64	9.1	7.2	6.2	13	4.4	NR	NR	0.0			26
27	NR	41	8.9	8.4	6.0	232	4.3	NR	NR	0.0			27
28	NR	305#	8.7	8.0	5.9	169	4.1	NR	NR	0.0			28
29	NR	109	8.4	8.3		134	4.0	NR	NR	0.0			29
30	NR	77	8.1	8.0		112	3.7	NR	NR	0.0			30
31	NR		7.9	7.7		96		NR		0.0			31

MONTHLY												
MEAN	NR	NR	37.9	7.3	83.9	55.7	18.0	NR	NR	NR	0.0	0.0
MAX	NR	NR	154	8.6	844	232	86	NR	NR	NR	0.0	0.0
MIN	0.0	0.0	7.9	6.3	5.9	5.9	3.7	NR	NR	0.0	0.0	0.0
ACFT	NR	NR	2333	449	4661	3422	1071	NR	NR	NR	0	0

MEAN	INSTANTANEOUS	MAXIMUM FLOW, 1984-85	INSTANTANEOUS	MINIMUM FLOW, 1984-85	TOTAL
FLOW	DATE	TIME	DATE	TIME	ACRE FEET
NR	February 08	1145	October 01	0015	0.0 2.03

REMARKS:

Station is located 0.4 miles north of Honcut-Wyandotte Road and Bangor Highway junction, 5.7 miles southwest of Bangor.

Tributary to the Feather River. Flows are partly regulated by Lake Wyandotte. Maximum flow of 10,700 cfs (December 26, 1964) was estimated by an extended rating curve.

Period of record for discharge is October 1959 to September 1962 and July 1963 to date.

The datum for this station from 1959 to 1962 is 0.00, LOCAL.
The datum for this station from 1963 to present is 0.00, LOCAL.

FOR PERIOD OF RECORD BEGINNING 1959:

	FLOW	GAGE	DATE	TIME
	CFS	HEIGHT		
INSTANTANEOUS MAXIMUM	10700E	11.57	December 26, 1964	NR
AVERAGE/YEAR	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: B02008 MOSHER CREEK NEAR STOCKTON

LOCATION: LAT 38-02-35, LONG 121-15-43, T02N, R06E, SEC. 01, MD B&M SAN JOAQUIN COUNTY

DRAINAGE AREA: Not available HYDROLOGIC AREA: B-03.B0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	7.5	0.0	5.0	0.0	0.0	0.0	3.4	3.7	10	7.6	12	7.5	1
2	7.8	0.0	5.2	0.0	0.0	0.0	3.6	6.9	11	4.3	8.1	5.7	2
3	7.8	0.1	5.8	0.0	0.0	0.0	3.0	12	10	12	9.7	6.9	3
4	7.6	0.1	6.4	0.0	0.0	0.0	1.9	11	4.2	7.4	5.9	7.5	4
5	7.3	0.1	6.8	0.0	0.0	0.0	0.9	3.4	.6	3.6	10	6.2	5
6	7.0	0.1	5.1	0.0	0.0	0.0	0.7	8.9	2.4	3.9	7.0	6.8	6
7	6.7	0.1	4.1	0.0	0.0	0.0	0.5	4.5	4.5	6.6	6.0	7.1	7
8	6.4	0.1	3.5	0.0	3.4	0.0	0.5	3.1	1.8	7.5	1.6	5.5	8
9	6.2	0.1	2.8	0.0	1.8	0.0	0.5	6.4	.6	6.5	2.9	9.0	9
10	6.1	0.1	9.7	0.0	1.8	0.0	0.5	5.4	6.5	4.1	2.8	6.4	10
11	5.8	0.1	6.1	0.0	0.4	0.0	1.9	2.6	7.7	1.9	4.3	6.6	11
12	5.4	0.1	5.6	0.0	0.2	0.0	4.6	9.6	3.1	11	3.0	6.5	12
13	4.9	0.1	4.9	0.0	0.1	0.0	1.9	7.1	2.6	9.0	5.3	7.3	13
14	4.2	0.2	3.9	0.0	0.1	0.0	7.0	5.4	4.6	10	7.5	5.6	14
15	3.6	0.3	5.7	0.0	0.1	0.0	11	5.0	3.5	6.2	7.3	5.0	15
16	3.2	0.3	7.8	0.0	0.1	0.0	12	1.8	9.6	10	7.5	6.1	16
17	2.7	0.3	4.7	0.1	0.0	0.0	14	3.8	7.6	6.4	5.2	5.6	17
18	1.5*	0.3	3.9	0.1	0.0	0.0	12	4.0	3.0	4.4	9.5	6.9	18
19	0.9	0.3	3.7	0.1	0.0	0.0	6.8	6.0	.3	6.4	13	7.7	19
20	0.5	0.3*	3.5	0.0	0.0	0.1	7.1	8.8	2.0	9.1	7.4	6.4	20
21	0.2	0.3	2.4	0.0	0.0	0.1	9.5	12	5.8	5.6	8.0	5.6	21
22	0.1	0.3	1.5	0.0	0.0	0.2	9.0	8.6	3.7	2.4	4.9	5.0	22
23	0.0	0.3	0.8	0.0	0.0	0.7	7.6	4.8	4.0	1.1	2.3	4.1	23
24	0.0	0.6	0.3	0.0	0.0	1.2	5.3	4.5	8.0	2.8	5.3	3.5	24
25	0.0	1.3	0.1	0.0	0.0	1.2	6.5	6.7	2.8	10	8.3	3.3	25
26	0.0	1.8	0.0	0.0	0.0	3.3	5.8	5.6	8.3	13	9.5	3.8	26
27	0.0	2.5	0.0	0.0	0.0	3.0	5.5	5.5	6.8	14	6.5	5.8	27
28	0.0	3.7	0.0	0.0	0.0	6.4	10	4.4	1.8	12	5.4	8.0	28
29	0.0	4.2	0.0	0.0	0.0	6.7	10	10	11	6.6	5.1	8.3	29
30	0.0	4.6	0.0	0.0	0.0	5.3	7.8	10	10	3.4	6.9	7.9	30
31	0.0		0.0	0.0	0.0	3.9		9.9		16	6.0		31
MONTHLY													
MEAN	3.3	.8	3.5	0.0	0.3	1.0	5.7	6.5	5.3	7.3	6.6	6.3	
MAX	7.8	4.6	9.7	0.1	3.4	6.7	14	12	11	16	13	9.0	
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.8	0.3	1.1	1.6	3.3	
ACFT	205	45	217	1	16	64	339	399	313	446	405	372	

MEAN FLOW	INSTANTANEOUS DATE	MAXIMUM FLOW, 1984-85 TIME	INSTANTANEOUS DATE	MINIMUM FLOW, 1984-85 TIME	TOTAL ACRE FEET
3.9	July 31	0545 21 27.09	October 26	1930 0.0 26.28	2822

REMARKS:

Station is located 5 miles north and east of Stockton on right bank of Mosher Creek 0.5 miles west of Highway 99.

Tributary to San Joaquin River. Station operated at Lower Sacramento Road (B02005) between 1965 and 1968. Discontinued until 1973. The station was reactivated at a site on Westlane (B02007) in 1973. Moved to present site in March of 1979.

Period of record for discharge is December 1965 to September 1967, October 1973 to September 1978 and March 1979 to date.

The datum for this station from 1965 to 1967 is 0.00, LOCAL.
The datum for this station from 1973 to 1978 is 0.00, LOCAL.
The datum for this station from 1979 to present is 0.00, LOCAL.

FOR PERIOD OF RECORD BEGINNING 1979:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAGE HEIGHT	DATE	TIME
	168	29.12	January 05, 1982	NR
	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: B02520 CALAVERAS RIVER NEAR STOCKTON

LOCATION: LAT 38-01-14, LONG 121-13-45, T02N, R07E, SEC. 17, MD B&M SAN JOAQUIN COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: B-03.C0

WATER YEAR	OCT	NOV	1984 thru DEC	SEPTEMBER 1985 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	6.9		0.0	0.0	0.0	0.0	1.8	28	12	13	21	11	1
2	7.6		0.0	0.0	0.0	0.0	0.2	25	15	12	15	17	2
3	5.5		0.0	0.0	0.0	0.0	0.0	21	8.0	12	9.4	10	3
4	4.6		0.0	0.0	0.0	0.0	0.0	33	10	9.4	9.8	13	4
5	3.5		0.0	0.0	0.0	0.0	0.0	34	7.3	13	10	14	5
6	2.6		0.0	0.0	0.0	0.0	0.0	27	12	10	12	14	6
7	2.1		0.0	0.0	0.0	0.0	0.0	15	9.0	14	16	18	7
8	1.8	N	0.0	0.0	0.0	0.0	0.0	14	10	14	21	25	8
9	1.3		0.0	0.0	26	0.0	0.0	13	8.7	14	13	17	9
10	0.8	O	0.0	0.0	26	0.0	0.0	11	12	18	14	15	10
11	0.5		0.0	0.6	12	0.0	0.0	26	16	9.2	19	16	11
12	0.3		2.5	0.0	4.0	0.0	0.0	28	14	12	7.6	8.2	12
13	0.1		2.5	0.0	0.9	0.0	0.0	25	10	25	13	8.4	13
14	0.0		0.1	0.0	0.0	0.0	0.0	19	5.6	15	13	6.5	14
15	0.0*		0.0	0.0	0.0	0.0	0.0	9.5	6.0	16	12	4.6	15
16	0.0	F	0.0	0.0	0.0	0.0	0.1	12	12	25	12	3.5	16
17	0.0		0.0	0.0	0.0	0.0	0.6	9.5	11	15	16	2.5	17
18	0.0	L	0.0	0.0	0.0	0.0	16	16	15	15	23	1.8	18
19	0.0		0.0	0.0	0.0	0.0	67	16	16	20	17	1.2	19
20	0.0	O	0.8	0.0	0.0	0.0	47	11	12	26	9.0	0.9	20
21	0.0	W	0.2	0.0	0.0	0.0	48	11	19	26	6.8	0.7	21
22	0.0		0.0	0.0	0.0	0.0	35	20	17	16	9.1	0.5	22
23	0.0		0.0	0.0	0.0	0.0	9.9	18	26	8.4	17	0.4	23
24	0.0		0.0	0.0	0.0	0.0	8.3	11	16	11	19	0.4	24
25	0.0		0.0	0.0	0.0	0.0	18	8.6	22	9.3	24	8.2	25
26	0.0		0.0	0.0	0.0	0.0	15	8.3	12	24	13	13*	26
27	0.0		0.0	0.0	0.0	0.0	11	9.4	18	14	12	16	27
28	0.0		0.0	0.0	0.0	0.0	14	9.6	22	16	14	14	28
29	0.0		0.0	0.0	7.6	16	16	4.7	18	8.5	21	13	29
30	0.0		0.0	0.0	7.8	23	23	8.2	18	6.6	13	11	30
31	0.0		0.0	0.0	4.4			9.5		9.6	12		31

MONTHLY

MEAN	1.2	0.0	0.2	0.0	2.5	0.6	11.0	16.5	13.7	14.7	14.3	9.5
MAX	7.6	0.0	2.5	0.6	26	7.8	67	34	26	26	24	25
MIN	0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	5.6	6.6	6.8	.4
ACFT	75	0	12	1	137	39	656	1014	812	906	880	565

MEAN FLOW	INSTANTANEOUS FLOW	DATE	MAXIMUM FLOW	TIME	1984-85 G.H.	INSTANTANEOUS FLOW	DATE	MINIMUM FLOW	TIME	1984-85 G.H.	TOTAL ACRE FEET
7.0		April 19	0400	78	4.41		October 14	0345	0.0	3.12	5097

REMARKS:

Station is located below Solori Road Bridge, 5 miles northeast of Stockton. Prior to October 28 1965, station was located 0.5 miles above Highway 99 Bridge, 1.5 miles below present location.

Flows are regulated by a diversion dam at Bellota operated by Stockton East Irrigation District.

Period of record for discharge is December 1948 to date.

The datum for this station from 1948 to present is 0.00, LOCAL.

FOR PERIOD OF RECORD BEGINNING 1948:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAGE HEIGHT	DATE	TIME
	829	11.14	December 22, 1984	NR
	Not available			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: B02580 STOCKTON DIVERSION CANAL AT STOCKTON

LOCATION: LAT 37-59-12, LONG 121-15-30, T02N, R06E, SEC. 25, MD B&M SAN JOAQUIN COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: B-03.C0

WATER YEAR	OCTOBER	NOV	1984	through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY		
1	0.7	1.3	NR	0.0	0.0	0.0	20	14	5.0	0.4	0.0	1.1	1		
2	19	0.0	NR	0.0	0.0	0.0	10	9.0	13	3.1	0.2	0.7	2		
3	16	0.0	NR	0.0	0.0	0.0	4.8	0.8	2.2	1.4	0.3	0.7	3		
4	7.6	0.0	221	0.0	17	1.1	3.5	3.2	1.1	0.3	0.0	0.7	4		
5	5.2	0.0	58	0.0	8.5	2.9	0.6	12	0.2	0.0	0.0	0.7	5		
6	4.1	0.0	28	0.0	3.4	0.6	4.5	14	0.1	0.0	0.0	0.7	6		
7	1.9	12	10	1.6	1.3	12	12	2.5	0.0	0.0	0.1	0.7	7		
8	1.1	24	3.8	380	374	112	7.8	0.2*	0.0	0.0	0.2	2.8	8		
9	.2	18	1.4	169	906	47	4.3	7.5	0.0	0.0	19	7.9	9		
10	.0	16	24	41	136	28	0.2	2.1	0.0	0.0	16	10	10		
11	1.2	15	119	15	46	231	0.0	0.3	0.0	4.5	6.6	3.1	11		
12	1.8	9.6	65	7.6	20	128	0.0	1.8	0.0	7.1	10	1.9	12		
13	3.1	18	27	3.1	7.7	50	0.0	1.6	0.0	0.0	3.3	1.6	13		
14	5.2	47	13	1.7	2.6*	28	0.0	3.3	0.0	0.0	1.9	3.3	14		
15	10	*	43	9.1	.5*	2.4	17	0.0	5.7	0.0	1.9	2.5	15		
16	21	24	157	0.0	0.5	10	0.0	0.0	0.0	0.0	1.9	2.5	16		
17	17	11	148	0.0	0.0	10	0.0	0.0	0.0	0.0	1.6	2.1	17		
18	34	5.4	46	0.0	0.0	17	0.0	0.0	0.0	0.0	1.1	1.8	18		
19	49	1.9	17	0.1	0.4	7.3	.0	0.0	0.0	0.0	1.8	1.4	19		
20	46	0.0*	6.8	0.0	0.0	3.4*	4.6	0.0	0.0	0.0	1.0	1.4	20		
21	15	NR	2.5	0.0	0.0	1.5	24	10	0.0	16	2.0	1.0	21		
22	9.5	NR	0.8	0.0	0.0	0.4	28	5.1	0.1	18	9.8	0.9	22		
23	8.7	NR	0.0	0.0	0.0	0.0	20	1.3	10	31	3.3	0.9*	23		
24	7.5	NR	0.0	0.0	0.0	17	11	19	5.4	9.0*	2.5	0.7	24		
25	14	NR	0.0	0.0	0.0	25	6.1	21	9.8	0.7	2.0	0.6	25		
26	7.9	NR	0.0	0.0	0.0	13	8.8	14	12	1.2	0.8	7.7	26		
27	2.1	NR	0.0	0.0	0.0	26	5.8	4.4	5.4	2.6	1.1	10	27		
28	1.6	NR	0.1	0.0	0.0	298	1.3	0.0	17	0.6	2.0	9.2	28		
29	7.2	NR	0.9	0.0	0.0	223	14	0.0	6.8	20	2.1	12	29		
30	4.3	NR	0.7	0.0	0.0	75	4.5	2.1	1.1	8.6	5.1	28	30		
31	2.9		0.4	0.0	0.0	42		3.4		0.0	1.9		31		
MONTHLY															
MEAN	10.5	NR	NR	20.0	54.5	46.0	6.5	5.1	3.0	4.0	3.2	4.0			
MAX	49	NR	NR	380	906	298	28	21	17	31	19	28			
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6			
ACFT	644	NR	NR	1229	3026	2829	388	314	177	247	197	235			
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85						INSTANTANEOUS MINIMUM FLOW, 1984-85						TOTAL		
FLOW	DATE		TIME		FLOW G.H.		DATE		TIME		FLOW G.H.				ACRE FEET
NR	February 08		2315		2000 9.52		October 09		0915		0.0 3.02				NR

REMARKS:

Station is located on right bank of diverting canal, 60 feet below Cherokee Lane Bridge.

Prior to June 12, 1969, station was located 200 feet above U.S. Highway 99. Water is diverted from Calaveras River at Bellota and returned to Calaveras River via Stockton Diverting canal.

Period of record for discharge is January 1944 to date.

The datum for this station from 1954 to present is 0.00, LOCAL.

FOR PERIOD OF RECORD BEGINNING 1925:

	FLOW	GAGE	DATE	TIME
INSTANTANEOUS MAXIMUM	CFS	HEIGHT		NR
AVERAGE/YEAR	11400E	17.10	April 04, 1958	
	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: B02805 FRENCH CAMP SLOUGH NEAR FRENCH CAMP

LOCATION: LAT 37-52-52, LONG 121-14-53, T01S, R07E, SEC. 06, MD B&M SAN JOAQUIN COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: B-03.D0

WATER DAY	YEAR	OCTOBER	NOV	1984 through	SEPTEMBER	1985										
		OCT		DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			DAY
1	120	0.0	97	14	13	14	92	73	77	45	55	123	1			
2	172	0.0	66	13	14	19	81	98	95	8.0	42	139	2			
3	134	0.2	88	11	21	27	70	102	113	22	46	111	3			
4	156	0.3	177	10	38	38	70	94	103	28	73	96	4			
5	128	0.0	110	10	27	50	76	91	74	20	62	105	5			
6	120	0.0	73	9.4	25	78	82	87	73	37	57	104	6			
7	117	0.0	50	11	25	79	119	69	79	28	69	114	7			
8	117	0.5	36	18	59	64	112*	76	68	44	54	129	8			
9	128	4.2	28	42	918	110	100	65	78	30	36	124	9			
10	137	4.8	28	38	730	107	88	51	70	8.0	39	127	10			
11	140	5.2	104	28	684	328	83	85	81	19	87	116	11			
12	164	4.2	101	24	656	323	103	103	69	43	65	124	12			
13	141	5.6	69	22	626	141	88	96	70	46	56	124	13			
14	176	49	50	18	586	95	71	73	45	65	67	151	14			
15	163	34	40	15*	431	71	101	65	51	60	42	108	15			
16	152	14	328	19	88	57	113	93	62	62	41	111	16			
17	113	11	608	14	63	49	133	73*	56	47	70	96	17			
18	80*	18	280	13	52	47	154	81	48	54	87	72	18			
19	36	28	117	12	45	49	131	83	31	71	55	76	19			
20	22	21	84	10	41	41	107	87	36	32	47	78	20			
21	15	14	65	10	35	41	107	89	55	50	75	82	21			
22	13	21	51	9.5	30	33	103	79	43	46	71	82	22			
23	6.7	17	41	9.9	28	38	77	63	59	72	100	82	23			
24	5.0	22	34	8.5	26	34	92	75	82	44	89	70*	24			
25	3.6	142	29	7.5	21	31	101	84	71	52	83	88	25			
26	3.2	137*	26	7.6	20	33	92	87	79	54	82	87	26			
27	1.5	93	25	9.8	18	57	87	81	72	41	95	102	27			
28	0.4	80	23	8.1	16	72	75	64	49	59	100	105	28			
29	1.0	427	20	7.8		98	53	81	41	66	98	84	29			
30	0.5	200	19	7.7		153	79	66	37	64	91	83	30			
31	0.1		16	9.2		112		66		67	98		31			
MONTHLY																
MEAN	82.8	45.1	93.0	14.4	191	80.3	94.7	80.0	65.6	44.6	68.8	103				
MAX	176	427	608	42	918	328	154	103	113	72	100	151				
MIN	0.1	0.0	16	7.5	13	14	53	51	31	8.0	36	70				
ACFT	5090	2684	5718	887	10580	4937	5633	4919	3901	2745	4229	6135				
MEAN FLOW	INSTANTANEOUS MAXIMUM FLOW, 1984-85															
DATE	DATE TIME FLOW G.H.															
79.4	February 09 0145 1190 7.64															
	INSTANTANEOUS MINIMUM FLOW, 1984-85															
	DATE TIME FLOW G.H.															
	November 02 1230 0.0 2.61															
	TOTAL ACRE FEET 57458															

REMARKS:

Located on right bank of French Camp Slough at Airport Way (Durham Ferry Road), 1.5 miles east of French Camp.

Tributary to San Joaquin River. An irrigation diversion dam is placed across the channel in some years requiring a supplemental rating curve be used for a bypass around the dam. Diversion dam was not installed during this water year.

Period of record for discharge is January 1950 to date.

The datum for this station from 1950 to 1955 is 0.00, LOCAL.

The datum for this station from 1955 to present is 4.00, LOCAL.

FOR PERIOD OF RECORD BEGINNING 1950:

INSTANTANEOUS MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR	CFS	HEIGHT	December 09, 1950	NR
	3390	6.31		
	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: B02835 DUCK CREEK NEAR STOCKTON

LOCATION: LAT 37-55-30, LONG 121-15-02, T01N, R06E, SEC. 24, MD B&M SAN JOAQUIN COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: B-03.D0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	4.5	3.1	11	2.1	0.0	0.4	0.5	0.4	0.8	1.5	2.1	3.1	1
2	4.4	3.2	10	2.0	0.0	0.5	0.5*	0.4	0.8	1.5	2.3	3.2	2
3	4.3	3.3	42	1.9	0.0	0.5	0.5	0.4	0.8	1.5	2.3	3.2	3
4	4.2	3.4	53	1.8	0.0	0.5	0.5	0.4	0.8	1.6	2.3	3.4	4
5	3.8	3.4	11	1.6	0.0	0.5*	0.5	0.4	0.8	1.6	2.3	3.2	5
6	3.8	3.5	9.0	1.5	0.0*	0.5	0.5	0.4	0.8	1.5	2.3E	3.4	6
7	3.7	3.7	8.5	1.5	0.0	0.5	0.5	0.4	0.8	1.6	2.3E	3.4	7
8	3.6	3.8	8.2	2.7	0.0	0.5	0.5	0.4	0.9	1.6	2.3E	3.6	8
9	3.6	3.8	7.9	11	99	0.5	0.5	0.4	1.3	1.6	2.3E	3.6	9
10	3.2	3.9	7.6	1.9	1.2	0.5	0.5	0.5	1.0	1.6	2.4E	3.6	10
11	3.2	4.0	11	1.5	0.1	1.7	0.5	0.8	1.0	3.8	2.4E	3.6	11
12	3.1	4.1	8.7	1.4	0.1	2.1	0.5	0.6	1.1	1.9	2.4E	3.6	12
13	3.0	4.2	6.7	1.3	0.1	0.6	0.5	0.6	1.1	1.9	2.4E	3.6	13
14	2.8	4.4	6.4	1.2	0.1	0.6	0.5	0.6	1.1	1.9	2.4*	3.8	14
15	2.6	4.4	6.1	1.1*	0.1	0.6	0.5	0.6	1.2	2.0	2.4	3.7	15
16	2.5	4.5	45	0.9	0.1	0.6	0.5	0.6	1.2	2.0	2.4	3.8	16
17	2.4	4.6	18	0.8	0.1	0.6	0.5	0.6	1.4	2.0	2.5	3.9	17
18	2.3*	4.7	5.7	0.7	0.2	0.6	0.5	0.6	1.2	2.0	2.5	4.0	18
19	2.4	4.8	5.1	0.6	0.2	0.6	0.5	0.6	1.3	2.0	2.5	3.9	19
20	2.4	4.9	4.8	0.5	0.2	0.6	0.5	0.6	1.4	2.0	2.5	4.0	20
21	2.4	5.1	4.6	0.4	0.2	0.6	0.5	0.6	1.3	2.0	2.6	4.1	21
22	2.5	5.1	4.4	0.3	0.2	0.6	0.5	0.8	1.3	2.1	2.6	4.3	22
23	2.5	5.3	3.9	0.2	0.3	0.6	0.5	1.3	1.4	2.1	2.6	4.3	23
24	2.5	5.4	3.7	0.2	0.3	0.6	0.5	0.6	1.4	2.1	2.6	4.3*	24
25	2.6	24	3.6	0.1	0.3	0.6	0.5	0.9	1.4	2.2	2.8	4.3	25
26	2.7	19*	3.4	0.1	0.4	0.5	0.5	0.7	1.5	2.2	2.8	4.3	26
27	2.7	12	3.0	0.1	0.4	0.5	0.4	0.7	1.5	2.1	3.0	4.4	27
28	2.8	12	2.8	0.0	0.4	0.5	0.4	0.7	1.5	2.1	2.8	4.4	28
29	3.0	36	2.6	0.0		0.5	0.4	0.7	1.4	2.3	3.0	4.3	29
30	2.9	12	2.5	0.0*		0.5	0.4	0.7	1.5	2.3	3.0	4.3	30
31	3.1		2.4	0.0		0.5		0.8		2.2	3.2		31

MONTHLY

MEAN	3.1	7.2	10.4	1.3	3.7	0.6	0.5	0.6	1.2	2.0	2.5	3.8
MAX	4.5	36	53	11	99	2.1	0.5	1.3	1.5	3.8	3.2	4.4
MIN	2.3	3.1	2.4	0.0	0.0	0.4	0.4	0.4	0.8	1.5	2.1	3.1
ACFT	189	428	640	78	206	39	29	37	69	121	155	227

MEAN FLOW	INSTANTANEOUS MAXIMUM FLOW, 1984-85				INSTANTANEOUS MINIMUM FLOW, 1984-85				TOTAL
	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	ACRE FEET
3.1	February 09	0200	256	5.76	January 29	2300	0.0	2.52	2218

REMARKS:

Station is located on downstream side of B Street Bridge. Prior to January 10, 1965, station was located at Laurel Avenue, 0.2 miles upstream from present location.

Duck Creek is a tributary to the San Joaquin River via French Camp Slough. Flows are regulated by gravity culverts which divert to Little Johns Creek.

Period of record for discharge is January 1950 to date.

The datum for this station from 1950 to 1965 is 0.00, LOCAL.

The datum for this station from 1965 to present is 0.00, LOCAL.

FOR PERIOD OF RECORD BEGINNING 1950:

INSTANTANEOUS	MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR	828	HEIGHT	January 23, 1983	NR	
	Not available				

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: B02010 BEAR CREEK NEAR LODI

LOCATION: LAT 38-04-27, LONG 121-12-40, T03N, R07E, SEC. 28, MD B&M SAN JOAQUIN COUNTY

DRAINAGE AREA: 36.7 SQ MILES

HYDROLOGIC AREA: B-03.B0

WATER YEAR	OCTOBER 1984	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	NR	7.7	26	2.8	4.7	2.1	6.4						1
2	NR	39	12	2.8	28	2.3	4.6						2
3	NR	26	252	2.8	23	2.0	3.7						3
4	NR	28	192	2.6	11	1.9	2.9						4
5	NR	20	58	2.5	7.5	2.2	2.5						5
6	NR	16	24	2.5	5.5	2.5	2.6						6
7	NR	17	12	3.1	4.8	5.5	7.4						7
8	NR	21	6.4	58	294	34	4.5*	N	N	N	N	N	8
9	NR	50	4.6	76	420	9.6	3.3						9
10	NR	24	121	38	110	7.1	3.9	O	O	O	O	O	10
11	NR	15	205	20	40	38	3.5						11
12	NR	11	64	11	20	28	3.0						12
13	NR	35	27	7.6	13	12	1.7						13
14	NR	118	13	6.1	9.7	7.2	1.9						14
15	NR	83	9.3	5.0	7.3	4.8	NR	R	R	R	R	R	15
16	32*	23	229	4.4*	5.9	3.8	NR	E	E	E	E	E	16
17	67	13	112	4.2	5.7	3.7	NR						17
18	87	9.4	38	4.0	5.5	2.9	NR	C	C	C	C	C	18
19	40	8.3	20	3.7	4.9*	2.4	NR						19
20	17	6.7*	11	3.4	4.2	2.3	NR	O	O	O	O	O	20
21	9.1	5.4	7.1	3.4	3.6	2.7	NR	R	R	R	R	R	21
22	5.3	6.6	5.6	3.6	3.6	2.4	NR						22
23	4.2	9.0	4.5	3.8	3.1	3.1	NR	D	D	D	D	D	23
24	3.7	31	3.9	3.8	2.9	2.4	NR						24
25	3.4	220	3.4	3.8	2.6	1.9	NR						25
26	3.0	64	3.6	3.8	2.6	1.9	NR						26
27	2.7	28	3.1	3.5	2.2	78	NR						27
28	2.5	132	3.1	3.3	2.2	105	NR						28
29	2.4	135	3.5	3.7		60	NR						29
30	2.3	53	3.4	6.4		21	NR						30
31	2.2		3.1	5.6		11							31

MONTHLY

MEAN	NR	41.8	47.8	9.8	37.4	15.0	NR	NR	NR	NR	NR	NR
MAX	NR	220	252	76	420	105	NR	NR	NR	NR	NR	NR
MIN	NR	5.4	3.1	2.5	2.2	1.9	NR	NR	NR	NR	NR	NR
ACFT	NR	2937	605	2078	920		NR	NR	NR	NR	NR	NR

MEAN FLOW	INSTANTANEOUS FLOW	MAXIMUM FLOW	1984-85	INSTANTANEOUS FLOW	MINIMUM FLOW	1984-85	TOTAL
NR	DATE	TIME	G.H.	DATE	TIME	G.H.	ACRE FEET
	February 8	2015	885	April 25	2115	0.0	0.30

REMARKS:

Station is located on upstream side of Alpine Road Bridge, 5.0 miles southeast of Lodi. Tributary to the San Joaquin River via Disappointment Slough.

A temporary dam is installed 1/2 mile below station during irrigation season. Flows are not computed during this period (October 1 through October 15, and April 15 through September 30).

Period of record for discharge is February 1965 to date.

The datum for this station from 1965 to present is 44.4, NGVD.

FOR PERIOD OF RECORD BEGINNING 1965:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAGE HEIGHT	DATE	TIME
	4550	8.33	January 22, 1967	NR
	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: G12200 BIDWELL CREEK NEAR FORT BIDWELL

LOCATION: LAT 41-52-57, LONG 120-10-26, T46N, R16E, SEC. 06, MD B&M MODOC COUNTY

DRAINAGE AREA: 25.6 SQ MILES

HYDROLOGIC AREA: G-12.C0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	8.5	9.4	11	8.4E	7.3E	12	26	77	54	20	10	7.5	1
2	7.8*	12	13	8.4E	7.4E	12	35	85	51	19	10	8.9	2
3	7.6	13	12	8.4E	7.4E	11	42	87	49	18	10	9.5	3
4	7.7	11	12	8.4E	6.9E	11	44	79	50	17	10	9.5	4
5	7.6	10	13*	8.3E	6.9E	10	47	76	53	16	9.8	9.2	5
6	7.6	10*	14	8.2E	6.9E	10	56	75	57	16	9.2	9.3	6
7	7.5	11	13	8.2E	7.1	9.7	71	73	60	15	8.4	9.7	7
8	7.3	11	13	8.2E	7.7	9.4	78	70	59	15	8.4	11	8
9	7.3	11	13	8.2	7.4	9.2	82	67*	54	14	8.8	12	9
10	7.7	11	14	7.9	7.1	9.4	82	63	51	13	8.9	12*	10
11	12	16	13	8.0	7.0	9.4	79*	58	49	13*	8.5	12	11
12	9.9	17	14	6.9	8.1	9.8	74	56	48*	12	8.2	12	12
13	13	19	13E	6.4	7.8	10*	76	55	47	12	7.6	12	13
14	9.5	16	10E	6.4E	7.8	11	88	58	46	12	8.1*	11	14
15	9.0	13	9.9E	6.7E	8.5	13	97	55	44	12	8.2	11	15
16	8.9	13	9.7E	6.8E	9.4	16	88	54	41	12	7.8	11	16
17	9.1	12	9.5E	6.7E	9.4	18	79	54	39	11	7.5	11	17
18	9.0	12	8.8E	7.2E	9.5	20	73	58	38	11	7.5	11	18
19	9.6	12	7.6E	7.7E	9.7	22	66	66	36	11	8.1	11	19
20	9.8	12	8.1E	8.2E	9.7	24	57	71	35	11	8.3	11	20
21	9.4	11	9.0E	8.7E	9.5	25	53	68	33	11	8.2	11	21
22	9.1	11	9.8E	8.2E	9.7	23	50	68	31	11	7.9	11	22
23	9.1	11	8.7E	8.2E	10	23	49	72	30	11	7.6	11	23
24	10	12	8.2E	8.4E	11	23	46	76	29	11	7.1	11	24
25	10	11	8.0E	7.9E	12	21	45	77	27	10	6.5	10	25
26	18	11	8.0E	7.9E	12	21	45	72	26	10	5.9	9.6	26
27	12	12	8.3E	7.7E	12	19	47	67	24	10	5.4	9.2	27
28	11	12	8.6E	8.2E	12	18	52	75	23	10	5.3	8.9	28
29	12	12	8.7E	7.9E	12	17	57	68	22	10	6.1	8.7	29
30	11	12	8.7E	7.7E	12	17	66	61	21	10	6.7	8.7	30
31	9.9		8.4E	7.7E		20		58		10	7.1		31
MONTHLY													
MEAN	9.6	12.2	10.5E	7.8E	8.8	15.6	61.7	67.7	40.9	12.7	8.0	10.4	
MAX	18	19	14	8.7E	12E	25	97	87	60	20	10	12	
MIN	7.3	9.4	7.6E	6.4E	6.9E	9.2	26	54	21	10	5.3	7.5	
ACFT	591	727	647E	480E	490	960	3669	4163	2434	781	490	616	
MEAN	INSTANTANEOUS	MAXIMUM FLOW,	1984-85	INSTANTANEOUS	MINIMUM FLOW,	1984-85	TOTAL						
FLOW	DATE	TIME	FLOW G.H.	DATE	TIME	FLOW G.H.	ACRE FEET						
22.2	April 14	1730	104 3.78	August 27	1745	5.1 2.75	16048						

REMARKS:

Station located east of New Pine Creek-Fort Bidwell Rd, 2.0 miles NW of Fort Bidwell.
Tributary to Upper Alkali Lake.

Stage-discharge relationship affected by ice at times.

Period of record for discharge is April 1955 to October 1957 (irrigation season only),
May 1958 to date. Period of record for gage height is same as discharge.

The datum for this station from 1958 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1958:

	FLOW	GAGE	DATE	TIME
INSTANTANEOUS MAXIMUM	CFS	HEIGHT		
AVERAGE/YEAR	682	5.64	December 24, 1964	0600
	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

= E and *.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: G15150 CEDAR CREEK AT CEDARVILLE
LOCATION: LAT 41-32-00, LONG 120-10-54, T42N, R16E, SEC. 06, MD B&M MODOC COUNTY
DRAINAGE AREA: 25.0 SQ MILES HYDROLOGIC AREA: G-12.B0

WATER YEAR DAY	OCT	OCTOBER NOV	1984 DEC	through JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	1.0	22	6.6	3.5E	2.2E	7.7	10	14	5.7	1.3	0.5	0.2	1
2	0.9*	26	6.6	3.5E	2.2E	7.5	16	15	5.4	1.2	0.6	0.6	2
3	1.7	23	6.4	3.5E	2.2E	7.1	20	15	5.0	1.2	0.5	0.5	3
4	4.4	20	6.0	3.5E	2.3E	7.1	22	14	4.8	1.1	0.4	0.5	4
5	5.8	20	5.7	3.4E	2.2E	6.6	25	13	4.8	1.1	0.3	0.4	5
6	6.9	10*	5.2	3.2E	2.2E	6.6	31E	13	4.6	1.0	0.3	0.4	6
7	7.5	4.2	5.4	3.2E	2.1E	6.5	39E	12	4.4	0.9	0.3	0.5	7
8	8.3	5.3	5.0	3.0E	2.4E	6.3	37E	12	4.3	0.9	0.3	1.2	8
9	9.9	5.6	4.9E	2.5E	2.5E	6.7	34E	12*	4.0	0.9	0.3	0.9	9
10	11	6.5	4.9E	2.5E	2.3E	6.9	30	11	3.7	0.8	0.3	0.8*	10
11	16	8.3	4.9E	2.5E	2.3E	6.9	26*	10	3.5	0.8*	0.3	0.7	11
12	15	7.7	4.9E	2.6E	3.0	7.4	24	9.0	3.3*	0.8	0.3	0.6	12
13	16	7.8	4.9E	2.7E	3.1	6.9*	24	8.6	3.1	0.7	0.3	0.5	13
14	15	7.7	4.9E	2.7E	3.3	6.2	27	8.3	3.0	0.6	0.2*	0.5	14
15	16	7.2	4.9E	2.7E	3.8	6.9	26	8.0	2.8	0.6	0.2	0.5	15
16	16	6.8	4.9E	2.7E	4.1	7.7	22	7.8	2.6	0.6	0.2	0.5	16
17	17	6.4	4.8E	2.7E	4.4	7.9	20	7.4	2.4	0.6	0.2	0.6	17
18	17	6.6	4.6E	2.6E	4.7	8.7	18	7.2	2.3	0.5	0.2	0.6	18
19	18	6.3	4.4E	2.6E	5.1	9.9	18	7.0	2.3	0.5	0.3	0.5	19
20	20	6.2	4.3E	2.5E	5.2	11	16	7.1	2.1	0.5	0.3	0.5	20
21	19	6.1	4.3E	2.6E	5.2	10	15	6.8	2.1	0.5	0.3	0.5	21
22	19	5.9	4.3E	2.5E	5.6	8.4	16	6.5	1.9	0.6	0.2	0.4	22
23	19	5.8	4.3E	2.5E	6.1	9.2	16	6.4	1.8	0.5	0.2	0.4	23
24	20	6.4	4.1E	2.4E	7.2	9.7	14	6.2	1.8	0.4	0.2	0.4	24
25	20	6.1	4.1E	2.4E	7.6	8.2	13	6.1	1.8	0.4	0.2	0.4	25
26	22	5.8	3.9E	2.4E	7.3	7.2	12	5.8	1.7	0.4	0.2	0.4	26
27	21	7.3	3.8E	2.4E	7.1	6.4	12	5.6	1.6	0.4	0.2	0.3	27
28	21	8.0	3.7E	2.4E	7.4	5.8	12	6.2	1.5	0.4	0.2	0.3	28
29	23	7.5	3.5E	2.4E	5.3	5.3	13	6.6	1.4	0.5	0.2	0.4	29
30	23	7.4	3.6E	2.2E	5.5	5.5	14	6.1	1.3	0.5	0.2	0.4	30
31	22		3.5E	2.2E	7.4	7.4		5.8		0.5	0.2		31

MONTHLY

MEAN	14.6	9.3	4.8E	2.7E	4.1E	7.5	20.7	9.0	3.0	0.7	0.3	0.5
MAX	23	26	6.6	3.5E	7.6E	11	39E	15	5.7	1.3	0.6	1.2
MIN	0.9	4.2	3.5E	2.2E	2.1E	5.3	10	5.6	1.3	0.4	0.2	0.2
ACFT	897	555	292E	168E	228E	459	1234	554	180	43	17	31

MEAN FLOW	INSTANTANEOUS MAXIMUM FLOW, 1984-85			INSTANTANEOUS MINIMUM FLOW, 1984-85			TOTAL	
	DATE	TIME	FLOW G.H.	DATE	TIME	FLOW G.H.	ACRE FEET	
6.4	April 7	1630	57E 4.57	August 26	1715	0.1 2.83	4658	

REMARKS:

Station located above Cedarville-Alturas Hwy culvert immediately West of Cedarville. Tributary to Middle Alkali Lake.

Stage-discharge relationship affected by ice at times. For 1984-85 water year flows for December, January, and February were estimated due to ice conditions.

Period of record for discharge is May 1958 to date.
Period of record for gage height is same as discharge.

The datum for this station from 1958 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1958:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAUGE HEIGHT	DATE	TIME
	133	5.45	December 15, 1983	0430
	Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

= E and *.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: G17150 EAGLE CREEK AT EAGLEVILLE
LOCATION: LAT 41-18-40, LONG 120-07-27, T40N, R16E, SEC. 23 MD B&M MODOC COUNTY
DRAINAGE AREA: 6.4 SQ MILES HYDROLOGIC AREA: G-12.A0

WATER YEAR	OCT	NOV	1984 through	SEPTEMBER	1985								
DAY			DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	4.0	5.0	4.3E	3.2E		NR	6.1	NR	12 E	8.3E	3.6	1.8	1
2	3.8	6.1	4.3E	3.0E		NR	8.4	NR	NR	7.9E	3.6	3.3	2
3	3.7	5.6	4.2E	NR		NR	9.8	NR	11 E	7.5E	3.5	2.7	3
4	3.7	5.0	4.1E	NR		NR	9.8	12E	NR	7.3E	3.3	2.4	4
5	3.6	4.7	4.3E	NR		NR	11	NR	NR	7.1E	3.2	2.3	5
6	3.6	5.1	4.1E	NR		NR	14	NR	NR	6.9E	3.2	2.3	6
7	3.5	4.8	4.1E	NR		NR	16	26E	NR	6.4E	3.2	2.3	7
8	3.3	4.8	4.1E	NR	N	NR	16	NR	6.0E	6.0E	3.1	5.7	8
9	3.3	5.0	4.1E	NR		NR	16	NR	6.0E	5.7E	3.0	3.3	9
10	3.2	4.8	4.1E	NR	O	NR	15	NR	NR	5.4E	3.0	2.9	10
11	3.5	5.1	3.9E	NR		NR	14	26E	NR	4.9E	3.0	2.8	11
12	3.2E	5.0	3.9E	NR		NR	14	25E	NR	5.2E	3.0	2.8	12
13	3.4E	5.0	3.9E	NR		NR	16	24E	30 E	5.4	2.9	2.7	13
14	3.4	4.9	3.9E	NR		NR	20	E	NR	5.3	2.7	2.6	14
15	3.3	4.7E	3.9E	NR	R	NR	20	NR	26 E	5.1	2.5	2.5	15
16	3.3	4.7	3.9E	NR	E	NR	17	NR	25 E	5.0	2.5	2.5	16
17	3.5	4.5	3.9E	NR		4.1	15	22E	24 E	4.9	2.5	2.5	17
18	4.0	4.6	3.9E	NR	C	4.1	14	NR	23 E	4.7	2.5	2.5	18
19	3.6	4.4	3.9E	NR		4.3	13	NR	24 E	4.6	2.4	2.4	19
20	3.6	4.4	3.9E	NR	O	4.7	11	NR	21 E	4.4	2.3	2.3	20
21	3.9	4.4	3.9E	NR	R	5.1	11	20E	19 E	4.4	2.3	2.3	21
22	4.5	4.3	3.9E	NR		5.1	9.4	NR	16 E	4.7	2.3	2.1	22
23	4.6	4.3	3.9E	NR	D	4.9	8.5	NR	16 E	4.6	2.3	2.0	23
24	5.9	4.3E	3.7E	NR		5.3	NR	NR	15 E	4.2	2.1	1.9	24
25	5.9	4.3E	3.7E	NR		5.1	NR	15E	13 E	3.7	2.0	1.8	25
26	6.9	4.5E	3.7E	NR		5.5	NR	NR	11 E	3.7	1.9	1.8	26
27	5.6	4.5E	3.6E	NR		5.3	NR	NR	11 E	3.7	1.8	1.8	27
28	5.2	4.5E	3.6E	NR		5.2	NR	NR	10 E	3.6	1.8	1.7	28
29	5.5	4.5E	3.6E	NR		5.1	NR	NR	9.7E	3.6	1.8	1.7	29
30	5.0	4.3E	3.4E	NR		4.8	NR	NR	8.9E	3.6	1.8	1.7	30
31	4.7		3.4E	NR		4.7		NR		3.6	1.8		31

MONTHLY

MEAN	4.1	4.7E	3.9E	NR		NR	NR	NR	NR	5.2E	2.6	2.4
MAX	6.9	6.1	4.3E	NR		NR	NR	NR	NR	8.3E	3.6	5.7
MIN	3.2	4.3	3.4E	NR		NR	NR	NR	NR	3.6E	1.8	1.7
ACFT	254	282E	240E	NR		NR	NR	NR	NR	320E	160	146

MEAN FLOW NR	INSTANTANEOUS DATE	MAXIMUM FLOW TIME	1984-85 FLOW NR	1984-85 G.H.	INSTANTANEOUS DATE	MINIMUM FLOW TIME	1984-85 FLOW NR	1984-85 G.H.	TOTAL ACRE FEET NR
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REMARKS:

Station located 0.6 miles south-west of Eagleville. Tributary to Middle Alkali Lake. The control for this station is a rectangular weir (installed 76/77 WY). Weir crest = 1.92' elevation, local datum. Weir overflow starts at elevation 2.88'.

Stage-discharge relationship affected by ice at times.

Period of record for discharge is May 1958 to date.

Period of record for gage height is the same as discharge.

The datum for this station from 1985 to present is 0.00, local.

FOR WATER YEAR 1985:

No record due to ice during January 1 to March 16. No record for plugged intake during April 24 to June 12 except for estimated flows from single staff readings. Weir overflow occurred on April 15 and June 12 to June 20.

FOR PERIOD OF RECORD BEGINNING 1958:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS NR	GAUGE HEIGHT	DATE	TIME
		Not available.		

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: G14500 EMERSON CREEK NEAR EAGLEVILLE

LOCATION: LAT 41-16-56, LONG 120-06-51, T40N, R16E, SEC. 36, MD B&M MODOC COUNTY

DRAINAGE AREA: Not available HYDROLOGIC AREA: G-12.A0

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985											
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY		
1	5.4	5.1	5.8	6.0	5.1	6.5	8.6	18	15	4.9	3.1	2.8	1		
2	5.2*	7.3	6.2	5.9	5.3	6.5	10	19	15	4.7	3.0	3.5	2		
3	5.1	7.2	5.9	5.9	5.2	8.5	12	20	14	4.4	3.0	3.2	3		
4	5.1	5.9	5.9	5.9	6.5	6.4	13	19	14	4.3	2.8	3.0	4		
5	5.1	5.8	5.7*	6.2	6.3	6.4	15	19	14	4.1	2.8	3.0	5		
6	5.1	5.6	6.0	6.2	5.1	6.3	17	19	14	3.9	2.8	3.0	6		
7	5.1	5.6	5.9	5.9	5.1	6.3	21	19	14	3.8	2.8	3.1	7		
8	5.1	5.6	5.9	5.9	5.4	7.0	22	18	15	3.7	2.8	3.9	8		
9	5.2	5.6	5.9	5.9	5.3	6.4	22	16*	15	3.6	2.8	3.4	9		
10	5.1	5.6	5.9	5.7	5.2	6.4	21	14	14	3.4	2.7	3.3*	10		
11	5.7	6.0	6.1	5.6	5.3	6.3	21*	14	14	3.3*	2.9	3.3	11		
12	5.5	5.9	6.3	5.6	5.8	6.2	21	13	13*	3.3	2.9	3.3	12		
13	6.2	6.0	6.2	5.3	5.6	6.3*	20	14	12	3.3	2.8	3.3	13		
14	5.6	6.0	6.2	5.3	5.6	6.5	19	14	11	3.2	2.8*	3.3	14		
15	5.6	5.9	5.9	5.4	5.5	7.0	18	14	11	3.1	2.7	3.3	15		
16	5.4	5.7	5.9	5.3	5.5	7.0	17	14	10	3.1	2.7	3.3	16		
17	5.6	5.6	5.9	5.3	5.6	7.2	22	14	9.4	3.0	2.7	3.3	17		
18	5.6	5.9	5.9	5.3	5.6	7.5	22	16	8.8	3.0	2.8	3.4	18		
19	5.3	5.6	5.9	5.3	5.8	7.4	20	18	8.6	3.0	2.8	3.3	19		
20	5.6	5.7	5.9	5.3	5.9	7.8	15	20	8.4	3.0	2.8	3.3	20		
21	5.3	5.7	5.9	5.3	5.8	7.5	14	20	7.7	3.2	2.8	3.3	21		
22	5.4	5.6	5.9	5.2	5.9	7.2	13	20	7.4	3.5	2.7	3.4	22		
23	5.6	5.7	6.0	5.2	6.2	7.4	13	22	7.5	3.4	2.7	3.4	23		
24	5.7	6.1	6.2	5.1	6.3	7.7	12	22	7.1	3.1	2.6	3.3	24		
25	5.8	5.7	6.2	5.1	6.2	7.3	11	22	6.7	3.1	2.6	3.3	25		
26	6.0	6.9	5.9	5.1	6.2	6.9	10	24	6.2	3.0	2.6	3.3	26		
27	5.3	6.1	5.9	5.1	6.2	6.7	10	24	5.8	3.0	2.6	3.3	27		
28	5.3	6.2	5.9	5.1	6.3	6.5	12	22	5.5	3.0	2.6	3.3	28		
29	5.8	5.9	5.9	5.1		6.4	14	23	5.3	3.1	2.6	3.3	29		
30	5.6	5.9	5.9	5.1		6.3	17	19	5.1	3.2	2.5	3.3	30		
31	5.3		5.6	5.1		7.1		17		3.0	2.7		31		
MONTHLY															
MEAN	5.4	5.9	6.0	5.5	5.7	6.9	16.1	18.3	10.5	3.4	2.8	3.3			
MAX	6.2	7.3	6.3	6.2	6.5	8.5	22	24	15	4.9	3.1	3.9			
MIN	5.1	5.1	5.6	5.1	5.1	6.2	8.6	13	5.1	3.0	2.5	2.8			
ACFT	335	352	366	337	317	422	957	1125	624	212	170	195			
MEAN	INSTANTANEOUS MAXIMUM FLOW, 1984-85					INSTANTANEOUS MINIMUM FLOW, 1984-85					TOTAL				
FLOW	DATE	TIME	FLOW	G.H.	DATE	TIME	FLOW	G.H.	ACRE FEET						
7.5	May 26	1545	25	2.72	August 15	1830	2.4	2.28	5412						

REMARKS:

Station located 2.25 miles south of Eagleville. Tributary to Lower Alkali Lake.

State-Discharge relationship affected by ice at times.

Period of record for discharge is October 1977 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1977 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1977:

INSTANTANEOUS	MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR		CFS	HEIGHT		
		250	3.78	May 25, 1984	1930
		Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: G31140 PINE CREEK AT EAGLE LAKE NEAR SUSANVILLE

LOCATION: LAT 40-39-54, LONG 120-47-25, T32N, R10E, SEC. 01M, MD B&M LASSEN COUNTY

DRAINAGE AREA: 227 SQ MILES

HYDROLOGIC AREA: G-08.C1

WATER YEAR	OCTOBER	1984 through	SEPTEMBER	1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1						0.0	45						1
2						0.0	90						2
3						0.0	79						3
4						0.0	58						4
5						0.0	63						5
6						0.0	79						6
7						0.0	103						7
8	N	N	N	N	N	0.0	172	N	N	N	N	N	8
9						0.0	196						9
10	O	O	O	O	O	0.0	177	O	O	O	O	O	10
11						0.0	128						11
12						0.0	90						12
13						0.0	59						13
14						0.0*	41						14
15						0.0	30						15
16	F	F	F	F	F	1.1	22	F	F	F	F	F	16
17						9.6	17						17
18	L	L	L	L	L	39	15	L	L	L	L	L	18
19						66	12						19
20	O	O	O	O	O	86	8.3	O	O	O	O	O	20
21	W	W	W	W	W	82	7.3	W	W	W	W	W	21
22						55	5.0						22
23						43	3.7						23
24						49	4.1						24
25						36	1.3						25
26						25	0.3						26
27						9.7	0.3						27
28						7.7	0.0						28
29						3.1	0.0						29
30						1.7	0.0						30
31						11							31

MONTHLY

MEAN	0.0	0.0	0.0	0.0	0.0	16.9	50.2	0.0	0.0	0.0	0.0	0.0
MAX	0.0	0.0	0.0	0.0	0.0	86	196	0.0	0.0	0.0	0.0	0.0
MIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ACFT	0.0	0.0	0.0	0.0	0.0	1041	2988	0.0	0.0	0.0	0.0	0.0

MEAN FLOW	INSTANTANEOUS DATE	MAXIMUM TIME	FLOW, 1984-85 G.H.	INSTANTANEOUS DATE	MINIMUM TIME	FLOW, 1984-85 G.H.	TOTAL ACRE FEET
5.6	April 09	1200	206 4.21	October 01	0015	0.0 0.38	4029

REMARKS:

Station located above mouth, 18 miles northwest of Susanville. Major surface water tributary to Eagle Lake.

Stage-discharge relationship affected by ice at times. Low flows affected by poor control.

Prior to October 1, 1969, gage was located 1 mile upstream at different datum.

Period of record for discharge is July 1956 to date.

Period of record for gage height is same as discharge.

The datum for this station from 1956 to 1969 is 0.00, local.

The datum for this station from 1969 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1956:

INSTANTANEOUS	MAXIMUM	FLOW	GAGE	DATE	TIME
AVERAGE/YEAR		CFS	HEIGHT		
		1140E	5.45	May 15, 1975	NA
		Not available.			

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

TABLE B-1 (continued)
DAILY MEAN DISCHARGE
(in cubic feet per second)

STATION NUMBER: G61705 LONG VALLEY CREEK NEAR HALLELUJAH JUNCTION
LOCATION: LAT 39-46-55, LONG 120-04-14, T22N, R17E, SEC. 03, MD B&M LASSEN COUNTY
DRAINAGE AREA: 100 SQUARE MILES HYDROLOGIC AREA: G-08.A0

WATER YEAR	OCTOBER 1984	through	SEPTEMBER 1985									
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15
DATA INSUFFICIENT TO COMPUTE DISCHARGE												
16												16
17												17
18												18
19												19
20												20
21												21
22												22
23												23
24												24
25												25
26												26
27												27
28												28
29												29
30												30
31												31

MONTHLY
MEAN
MAX
MIN
ACFT

MEAN FLOW NR	INSTANTANEOUS MAXIMUM FLOW, 1984-5 DATE	TIME	FLOW G.H.	INSTANTANEOUS MINIMUM FLOW, 1984-5 DATE	TIME	FLOW G.H.	TOTAL ACRE FEET NR
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REMARKS:

Station located at State Hwy 70 bridge, 2 miles West of Hallelujah Junction.
A tributary to Honey Lake. Prior to October 1, 1969, station was located 13 miles downstream
at different datum as G61200, Long Valley Creek above Doyle.

Stage-discharge relationship affected by ice at times.

Period of record for discharge is October 1970 to October 1985.

Period of record for gage height is same as discharge.

The datum for this station from 1969 to present is 0.00, local.

FOR PERIOD OF RECORD BEGINNING 1970:

INSTANTANEOUS MAXIMUM AVERAGE/YEAR	FLOW CFS	GAUGE HEIGHT	DATE	TIME
3520	9.16	January 24, 1970	0145	
Not available.				

E = Estimated. NR = No record. * = Discharge measurement or observation of no flow.

Table B-2

Stage stations are named, numbered, and presented in the same manner as discharge stations (see page 30). In addition to the daily mean stage, Table B-2 includes a station description and other pertinent data concerning each station.

The stage stations in this appendix are listed below; their locations are shown in Figure 4, pages 32 through 37. The basins and tributary areas pertaining to stage measurements are:

BASIN A – SACRAMENTO RIVER
Tributary Area 0 – Sacramento Valley Floor

BASIN G – NORTH LAHONTAN
Tributary Area 3 – Eagle Lake

Index To Daily Mean Stage Table

Station Name	Station Number	Map Page	Data Page
Butte Slough near Meridian	A02972	34	112
Colusa Basin Drain at Highway 20	A02976	36	109
Colusa Basin Drain at Knights Landing	A02945	36	110
Eagle Lake near Spaulding	G31139	33	115
Sacramento River at Bend Bridge	A02785	34	101
Sacramento River at Colusa Weir	A02430	34	107
Sacramento River at Hamilton City	A02630	34	103
Sacramento River at Knights Landing	A02200	36	111
Sacramento River at Moulton Weir	A02445	34	105
Sacramento River at Ord Ferry	A02570	34	104
Sacramento River at Tisdale Weir	A02301	34	108
Sacramento River at Vina Bridge	A02700	34	102
Sacramento River opposite Moulton Weir	A02450	34	106
Sutter Bypass at Reclamation District # 1500 Pumping Plant	A02927	36	114
Wadsworth Canal near Sutter (Upper Station)	A05929	34	113

TABLE B-2
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02785 SACRAMENTO RIVER AT BEND BRIDGE

LOCATION: LAT 40-15-50, LONG 122-13-19, T28N, R3W, SEC. 20, MD B&M TEHAMA COUNTY

DRAINAGE AREA: Approximately 9,000 SQ. MILES HYDROLOGIC AREA: A-17.A0

WATER YEAR	OCTOBER	1984	through	SEPTEMBER	1985								
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	18.98	18.60	20.58	19.20	18.43	18.03	18.05	19.61	19.19	21.00	20.20	18.26	1
2	18.96	18.69	20.51	18.68	18.41	18.03	18.07	19.66	19.18	21.08	20.18	18.27	2
3	18.93	18.95	22.24	18.57	18.40	18.02	18.10	19.65	19.11	21.15	20.18	18.23	3
4	18.97	18.86	22.52	18.56	18.41	18.02	18.05	19.65	19.08	21.07	20.15	18.07	4
5	19.01	18.73	22.49	18.52	18.40	18.05	18.03	19.64	18.86	21.09	20.06	17.87	5
6	18.99	18.78	22.49	18.50	18.41	18.09	18.03	19.64	19.15	21.09	20.10	17.72	6
7	18.83	18.91	22.32	18.60	18.58	18.38	18.02	19.65	19.27	21.17	20.06	17.74	7
8	18.63	19.37	22.22	18.78	22.56	18.57	18.02	19.67	19.74	21.18	20.08	18.25	8
9	18.39	19.21	22.26	18.71	20.06	18.29	18.01	19.66	19.75	21.25	20.04	18.32	9
10	18.28	19.61	23.16	18.88	19.26	18.51	18.00	19.65	19.77	21.24	20.03	17.52	10
11	18.93	21.55	24.49	18.68	18.98	18.51	18.00	19.49	19.72	21.01	19.99	17.22	11
12	18.53	22.24	22.86	18.48	18.70	18.30	18.03	19.45	19.71	21.04	19.96	17.19	12
13	18.40	23.58	22.40	18.42	18.14	18.10	18.31	19.14	19.72	21.04	19.99	17.16	13
14	18.37	23.06	22.44	18.42	18.04	18.03	18.49	21.04	19.89	21.00	19.90	17.13	14
15	18.34	22.49	21.78	18.42	18.03	18.02	18.50	21.14	19.86	21.12	19.91	17.10	15
16	18.41	23.13	21.72	18.38	18.02	18.01	18.53	NR	19.86	21.23	19.95	17.07	16
17	18.50	22.64	21.38	18.47	18.01	18.00	18.50	NR	19.89	21.12	19.96	NR	17
18	18.43	22.97	21.31	18.45	18.01	17.99	18.48	NR	20.13	21.23	19.58	NR	18
19	18.40	22.57	21.18	18.51	18.04	17.98	18.38	NR	20.14	21.27	19.22	NR	19
20	18.41	22.60	20.80	18.48	18.10	17.97	18.58	NR	20.14	21.27	19.22	NR	20
21	18.31	22.71	20.41	18.46	18.08	17.95	18.80	NR	20.19	21.33	19.14	NR	21
22	18.05	22.35	20.05	18.46	18.06	17.94	18.84	NR	20.39	21.19	19.10	NR	22
23	18.04	22.12	19.57	18.44	18.06	17.93	18.79	NR	20.41	20.89	18.89	NR	23
24	18.04	25.86	19.55	18.48	18.04	17.92	18.77	NR	20.41	20.85	18.47	NR	24
25	18.03	23.32	19.49	18.43	18.05	17.91	18.70	NR	20.40	20.27	18.31	NR	25
26	18.15	22.12	19.48	18.44	18.07	17.90	18.66	NR	19.99	20.24	18.19	NR	26
27	18.34	22.14	19.52	18.44	18.04	18.06	18.90	NR	20.98	20.22	18.12	NR	27
28	18.35	24.17	19.42	18.43	18.03	18.38	19.19	NR	20.95	20.21	18.37	NR	28
29	18.41	21.71	19.39	18.45		18.38	19.26	NR	20.99	20.20	18.42	NR	29
30	18.43	21.12	19.38	18.42		18.20	19.43	19.10	20.94	20.23	18.30	NR	30
31	18.52		19.38	18.41		18.10		19.11		20.21	18.28		31

INSTANTANEOUS MAXIMUM GAGE HEIGHT, 1984-85

DATE TIME G.H.
November 24 1100 29.06

REMARKS:

Station located on downstream side of Bend Bridge approximately 6 miles northeast of Red Bluff.
Station established beginning of the 1967-68 water year as a radio and telemetry station.

Flow regulated by Shasta Dam since December 30, 1943. Flow affected by upstream diversions.
Transbasin diversions from the Trinity River Whiskeytown Reservoir via Judge Frances Carr
Powerplant began in April 1963.

Period of record for discharge is not available.
Period of record for gage height is 1978 to present.

The datum for this station from 1966 to present is 266.00, USED.

FOR PERIOD OF RECORD BEGINNING 1978:

	GAGE	DATE	TIME
INSTANTANEOUS MAXIMUM	HEIGHT		
	47.50	March 1, 1983	1130

E = Estimated. NR = No Record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02700 SACRAMENTO RIVER AT VINA BRIDGE

LOCATION: LAT 39-54-36, LONG 122-05-36, T24N, R02W, SEC. 28, MD B&M

TEHAMA COUNTY

DRAINAGE AREA: 10,930 SQ MILE (excluding Goose Lake Basin)

HYDROLOGIC AREA: A-13.B0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	65.76	65.72	68.13	66.34	65.62	65.27	65.49	65.80	65.70	67.01	66.48	65.55	1
2	65.75	65.77	67.80	65.97	65.62	65.27	65.56	65.86	65.72	67.11	66.47	65.58	2
3	65.74	66.20	69.51	65.80	65.64	65.26	65.69	65.85	65.66	67.16	66.50	65.59	3
4	65.78	66.06	69.81	65.78	65.61	65.28	65.63	65.84	65.63	67.11	66.57	65.51	4
5	65.80	65.86	69.60	65.74	65.62	65.35	65.55	65.85	65.43	67.12	66.51	65.38	5
6	65.79	65.90	69.62	65.74	65.59	65.40	65.53	65.87	65.50	67.13	66.43	65.26	6
7	65.74	66.02	69.38	65.80	65.68	65.75	65.48	65.85	65.60	67.16	66.51	65.32	7
8	65.57	66.30	69.27	65.99	69.09	66.04	65.41	65.85	65.93	67.21	66.48	65.68	8
9	65.41	66.43	69.16	65.88	68.14	65.68	65.28	65.89	66.07	67.27	66.46	65.97	9
10	65.29	66.24	70.00	66.06	66.71	65.79	65.21	65.86	66.05	67.32	66.51	65.71	10
11	65.73	68.42	72.05	65.89	66.30	66.16	65.19	65.81	66.02	67.09	66.50	65.28	11
12	65.68	69.97	70.20	65.79	66.10	65.80	65.19	65.74	65.96	67.12	66.51	65.20	12
13	65.49	71.94	69.56	65.70	65.73	65.62	65.36	65.70	65.94	67.14	66.52	NR	13
14	65.44	70.54	69.45	65.67	65.45	65.22	65.59	66.25	66.04	67.10	66.51	NR	14
15	65.40	69.70	69.15	65.67	65.37	65.20	65.61	67.18	66.04	67.25	66.49	NR	15
16	65.46	70.31	68.96	65.63	65.34	65.20	65.58	67.21	66.03	67.30	66.56	NR	16
17	65.59	70.22	68.51	65.68	65.29	65.19	65.56	66.70	66.00	67.25	66.60	NR	17
18	65.54	70.30	68.38	65.67	65.26	65.19	65.54	65.46	66.18	67.30	66.55	NR	18
19	65.49	69.98	68.18	65.75	65.36	65.19	65.48	65.68	66.23	67.37	66.08	NR	19
20	65.52	69.61	68.00	65.68	65.48	65.19	65.48	65.72	66.21	67.37	66.05	NR	20
21	65.48	70.32	67.56	65.71	65.44	65.18	65.72	65.67	66.21	67.45	66.02	NR	21
22	65.31	69.48	67.26	65.69	65.42	65.18	65.73	65.58	66.34	67.34	66.01	NR	22
23	65.26	69.26	66.63	65.68	65.39	65.17	65.68	65.55	66.41	67.21	65.96	NR	23
24	65.26	73.45	66.63	65.70	65.37	65.17	65.53	65.51	66.44	67.05	65.67	NR	24
25	65.23	71.45	66.56	65.65	65.35	65.18	65.44	65.76	66.45	66.61	65.60 E	NR	25
26	65.25	69.95	66.55	65.68	65.32	65.22	65.34	65.78	66.25	66.45	NR	NR	26
27	65.52	69.30	66.58	65.67	65.30	65.70	65.35	65.80	66.61	66.40	NR	NR	27
28	65.53	73.00	66.48	65.65	65.24	65.77	65.57	65.73	66.98	66.37	NR	NR	28
29	65.58	69.86	66.43	65.65		65.70	65.67	65.75	66.97	66.38	NR	NR	29
30	65.59	68.72	66.42	65.65		65.58	65.69	65.60	66.99	66.42	65.53 E	NR	30
31	65.61		66.40	65.60		65.49		65.62		66.40	65.53		31

REMARKS:

Station located 250 feet above Vina-Corning Highway bridge, 2.6 miles southwest of Vina.

Flow regulated by Shasta Dam since December 30, 1943. Approximately 190,000 acre-feet diverted from the river between Keswick and Vina in addition to diversions from the tributaries. Transbasin diversions from the Trinity River Whiskeytown Reservoir via Judge Frances Carr Powerplant began in April 1963.

The maximum discharge is for the main river channel and does not include water by-passing the station on the left bank.

Period of record for discharge is April 1945 to date.

Period of record for gage height is same as discharge.

Mean daily discharge and peak discharge records, for this station, for the 1984-85 water year are available in the discharge section of this publication.

The datum for this station from 1945 to present is 100.0, USED.

The datum for this station from 1945 to present is 97.1, USCGS.

E = Estimated. NR = No Record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02630 SACRAMENTO RIVER AT HAMILTON CITY

LOCATION: LAT 39-45-06, LONG 121-59-48, T22N, R01W, SEC. 20, MD B&M

BUTTE COUNTY

DRAINAGE AREA: 11,060 square miles (excluding Goose Lake Basin)

HYDROLOGIC AREA: A-13.B0

WATER YEAR	OCTOBER 1984	NOVEMBER 1984	DECEMBER 1984	JANUARY 1985	FEBRUARY 1985	MARCH 1985	APRIL 1985	MAY 1985	JUNE 1985	JULY 1985	AUGUST 1985	SEPTEMBER 1985	DAY
1	29.64	29.62	31.72	30.31	29.69	29.37	29.57	29.38	29.20	30.10	29.69	28.97	1
2	29.65	29.65	31.40	30.08	29.70	29.37	29.62	29.42	29.18	30.17	29.73	29.01	2
3	29.63	29.96	32.60	29.88	29.69	29.36	29.71	29.43	29.17	30.20	29.72	29.03	3
4	29.66	29.96	32.93	29.85	29.69	29.38	29.67	29.40	29.12	30.17	29.78	29.01	4
5	29.69	29.85	32.78	29.82	29.68	29.44	29.56	29.38	28.97	30.17	29.77	28.89	5
6	29.68	29.86	32.81	29.82	29.67	29.50	29.52	29.43	28.93	30.19	29.67	28.79	6
7	29.68	29.98	32.62	29.84	29.72	29.71	29.50	29.40	29.01	30.22	29.73	28.83	7
8	29.52	30.12	32.52	29.99	31.68	30.02	29.44	29.43	29.24	30.25	29.71	29.11	8
9	29.39	30.34	32.39	29.94	32.10	29.77	29.29	29.45	29.42	30.30	29.68	29.51	9
10	29.25	30.12	33.02	30.05	30.69	29.77	29.24	29.44	29.41	30.36	29.72	29.43	10
11	29.52	31.34	34.77	29.95	30.29	30.12	29.16	29.42	29.37	30.18	29.72	29.02	11
12	29.67	32.93	33.41	29.86	30.13	29.88	29.08	29.32	29.28	30.21	29.73	28.94	12
13	29.46	34.34	32.83	29.78	29.88	29.74	29.19	29.31	29.26	30.22	29.72	28.81	13
14	29.39	33.71	32.63	29.75	29.61	29.40	29.40	29.49	29.30	30.19	29.74	28.81	14
15	29.38	32.88	32.50	29.76	29.51	29.28	29.45	30.49	29.33	30.31	29.68	28.67	15
16	29.39	33.03	32.25	29.72	29.46	29.28	29.39	30.49	29.30	30.32	29.77	28.67	16
17	29.51	33.39	31.97	29.75	29.43	29.28	29.38	30.36	29.31	30.33	29.80	28.68	17
18	29.50	33.15	31.85	29.74	29.40	29.26	29.35	29.16	29.39	30.32	29.83	28.45	18
19	29.45	33.09	31.69	29.79	29.43	29.25	29.30	29.30	29.48	30.39	29.47	28.53	19
20	29.46	32.64	31.59	29.80	29.56	29.24	29.22	29.30	29.46	30.39	29.40	28.62	20
21	29.45	33.31	31.25	29.78	29.54	29.20	29.42	29.26	29.47	30.46	29.36	28.60	21
22	29.31	32.67	31.08	29.76	29.52	29.13	29.46	29.16	29.52	30.43	29.33	28.43	22
23	29.16	32.48	30.56	29.76	29.49	29.06	29.41	29.14	29.63	30.36	29.32	28.39	23
24	29.16	35.44	30.52	29.76	29.48	29.08	29.27	29.05	29.66	30.21	29.10	28.37	24
25	29.11	34.95	30.48	29.73	29.46	29.19	29.15	29.25	29.66	29.94	28.97	28.43	25
26	29.10	33.21	30.46	29.74	29.43	29.20	29.05	29.31	29.63	29.74	28.85	28.55	26
27	29.37	32.31	30.48	29.74	29.41	29.70	29.03	29.33	29.60	29.68	28.78	28.57	27
28	29.42	35.75	30.41	29.73	29.36	29.76	29.17	29.29	30.06	29.64	28.78	28.60	28
29	29.46	33.32	30.37	29.72	29.76	29.30	29.28	29.28	30.05	29.67	28.99	28.62	29
30	29.51	32.18	30.35	29.72	29.65	29.28	29.13	30.10	29.68	28.98	28.65	28.65	30
31	29.51	30.34	29.70	29.60	29.60	29.11	29.11	29.69	28.94	28.94	28.94	28.94	31

REMARKS:

Station located at Gianella Bridge, State Highway 32, 1.0 mile northeast of Hamilton City.

Flow regulated by Shasta Dam since December 30, 1943. Approximately 950,000 acre-feet diverted from the river between Keswick and Hamilton City in addition to diversions from the tributaries. Transbasin diversions from the Trinity River Whiskeytown Reservoir via Judge Frances Carr Powerplant began in April 1963.

Prior to regulation by Shasta Lake, the Maximum discharge was 350,000 CFS at stage 22.60 feet on February 28, 1940. Zero of gage = 127.9, USED in 1940. The maximum discharges of record since February 1940, are for the main river channel and do not include water by-passing the station on the left bank.

Period of record for discharge is Spring 1945 to date. Period of record for gage height is 1927 to date.

Mean daily discharge and peak discharge records, for this station, for the 1984-85 water year are available in the discharge section of this publication.

The datum for this station from 1927 to 1945 is 127.9, USED.

The datum for this station from 1945 to present is 100.0 USED or 96.5 USGCS.

E = Estimated. NR = No Record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02570 SACRAMENTO RIVER AT ORD FERRY

LOCATION: LAT 39-37-42, LONG 121-59-30, T21N, R01W, SEC. 19, MD B&M GLENN COUNTY

DRAINAGE AREA: 12480 square miles (excluding Goose Lake Basin) HYDROLOGIC AREA: A-07.D0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	47.49	47.45	50.89	48.52	47.60	47.17	47.47	47.06	46.80	48.03	47.48	46.48	1
2	47.55	47.49	50.40	48.28	47.63	47.15	47.50	47.16	46.80	48.09	47.52	46.53	2
3	47.52	47.84	51.48	47.95	47.60	47.15	47.60	47.17	46.83	48.14	47.54	46.56	3
4	47.53	47.99	51.99	47.89	47.60	47.17	47.59	47.13	46.73	48.15	47.60	46.58	4
5	47.58	47.82	51.73	47.84	47.59	47.25	47.45	47.11	46.59	48.11	47.61	46.43	5
6	47.58	47.82	51.62	47.82	47.59	47.34	47.38	47.15	46.43	48.15	47.51	46.30	6
7	47.59	47.91	51.40	47.84	47.64	47.54	47.33	47.13	46.57	48.17	47.53	46.28	7
8	47.40	48.11	51.24	48.00	49.30	47.99	47.28	47.14	46.76	48.24	47.52	46.60	8
9	47.23	48.46	51.08	48.00	51.35	47.78	47.09	47.18	47.10	48.29	47.49	47.18	9
10	47.05	48.23	51.59	48.06	49.22	47.68	46.96	47.19	47.10	48.38	47.54	47.27	10
11	47.22	49.25	53.35	48.03	48.58	48.22	46.90	47.18	47.04	48.20	47.54	46.69	11
12	47.63	51.48	52.46	47.91	48.32	47.98	46.75	47.03	46.93	48.20	47.56	46.53	12
13	47.31	52.72	51.69	47.76	48.04	47.74	46.84	47.01	46.90	48.20	47.54	46.35	13
14	47.19	52.76	51.47	47.71	47.63	47.34	47.11	46.98	46.90	48.19	47.59	46.33	14
15	47.17	51.70	51.43	47.72	47.44	47.10	47.22	48.46	46.97	48.28	47.51	46.20	15
16	47.17	51.52	51.18	47.69	47.37	47.08	47.16	48.50	46.92	48.34	47.60	46.10	16
17	47.33	52.28	50.89	47.66	47.31	47.06	47.16	48.55	46.97	48.38	47.67	46.15	17
18	47.35	51.74	50.58	47.71	47.26	47.02	47.09	47.06	46.99	48.32	47.73	45.90	18
19	47.28	51.89	50.38	47.73	47.23	47.03	47.03	46.99	47.17	48.43	47.34	45.86	19
20	47.26	51.28	50.25	47.76	47.42	46.99	46.92	46.99	47.14	48.43	47.11	46.03	20
21	47.26	52.00	49.84	47.74	47.42	46.93	47.11	46.95	47.17	48.49	47.07	46.02	21
22	47.15	51.39	49.60	47.71	47.38	46.84	47.22	46.82	47.19	48.54	46.99	45.86	22
23	46.92	51.09	49.03	47.71	47.34	46.76	47.20	46.79	47.36	48.46	47.01	45.73	23
24	46.85	53.36	48.87	47.70	47.33	46.75	47.00	46.68	47.42	48.20	46.76	45.73	24
25	46.81	54.66	48.80	47.69	47.30	46.87	46.86	46.83	47.41	47.98	46.54	45.74	25
26	46.80	52.12	48.72	47.66	47.25	46.93	46.70	46.97	47.48	47.58	46.39	45.92	26
27	47.05	51.03	48.72	47.68	47.23	47.64	46.66	46.98	47.21	47.49	46.30	45.94	27
28	47.20	54.23	48.67	47.67	47.16	47.67	46.80	46.97	47.89	47.42	46.22	45.97	28
29	47.24	50.12	48.59	47.65	47.72	46.98	46.95	47.93	47.46	46.46	46.01	29	
30	47.33	49.80	48.57	47.65	47.61	46.95	46.78	48.01	47.50	46.52	46.08	30	
31	47.35		48.53	47.63	47.51		46.72		47.49	46.46		31	

REMARKS:

Station located 0.1 miles below Ord Ferry.

Flow regulated by Shasta Dam since December 30, 1943. Approximately 980,000 acre-feet diverted from the river between Keswick and Ord Ferry in addition to diversions from the tributaries. Transbasin diversions from the Trinity River Whiskeytown Reservoir via Judge Frances Carr Powerplant began in April 1963.

Prior to regulation by Shasta Lake, the maximum discharge was 370,000 CFS at stage 121.70 ft on February 28, 1940. Zero of gage = 0.00, USED in 1940. Records of flows in excess of 70,000 CFS are not reliable due to an undetermined amount of water by-passing the station via Butte Basin.

Period of record for discharge is January 1948 to date. Period of record for gage height is 1921 to May 1927 (flood season only), February 1937 to May 1937, October 1937 to May 1939, November 1939 to May 1941, November 1941 to date.

Mean daily discharge and peak discharge records, for this station, for the 1984-85 water year are available in the discharge section of this publication.

The datum for this station from 1937 to 1960 is 0.00, USED.

The datum for this station from 1960 to present is 50.00, USED.

E = Estimated. NR = No record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A024450 SACRAMENTO RIVER AT MOULTON WEIR
LOCATION: LAT 39-20-18, LONG 122-01-18, T17N, R02W, SEC. 12, MD B&M COLUSA COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.D0

WATER YEAR	OCTOBER 1984	through	SEPTEMBER 1985												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY		
1													1		
2													2		
3													3		
4													4		
5													5		
6													6		
7													7		
8													8		
9													9		
10													10		
11													11		
12													12		
13													13		
14													14		
15													15		
16													16		
17													17		
18													18		
19													19		
20													20		
21													21		
22													22		
23													23		
24													24		
25													25		
26													26		
27													27		
28													28		
29													29		
30													30		
31													31		

GAGE HEIGHT DID NOT EXCEED CREST OF WEIR (76.75)
FOR THE ENTIRE WATER YEAR

INSTANTANEOUS MAXIMUM GAGE HEIGHT, 1984-85
DATE TIME G.H.
Not applicable

REMARKS:

Station located west of south end of weir, 4.6 miles south of Princeton.
Gage heights below weir crest (elevation 76.75) are not indicative of flow over weir.
Discharge records for flow over Moulton Weir are available in this publication as station A02986, Moulton Weir Spill to Butte Basin near Colusa.
Period of record for gage height is January 1935 to date (flood season only).
The datum for this station from 1935 to present is 0.00, USED.

FOR PERIOD OF RECORD BEGINNING 1935:
GAGE
HEIGHT DATE TIME
INSTANTANEOUS MAXIMUM 83.8 February 7, 1942 NR

E = Estimated. NR = No record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02450 SACRAMENTO RIVER OPPOSITE MOULTON WEIR
LOCATION: LAT 39-20-13, LONG 122-01-50, T17N, R2W, SEC. 12 MD B&M COLUSA COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.DO

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
DATA INSUFFICIENT TO COMPUTE GAGE HEIGHT													
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

INSTANTANEOUS MAXIMUM GAGE HEIGHT, 1984-85
DATE TIME G.H.
NR

REMARKS:

Station located immediately west of weir, 4.8 miles south of Princeton.

Period of record for discharge is March 1954 to September 1969. Period of record for gage height is 1915 to February 8, 1984 and October 1, 1986 to date.

The datum for this station from 1915 to present is 0.00, USED.

FOR PERIOD OF RECORD BEGINNING 1957:

	GAGE HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	83.04	December 24, 1964	1000

E = Estimated. NR = No Record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02430 SACRAMENTO RIVER AT COLUSA WEIR

LOCATION: LAT 39-14-07, LONG 121-59-50, T16N, R1W, SEC. 17, MD B&M COLUSA COUNTY

DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.D0

WATER YEAR OCTOBER 1984 through SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8	N		N	N	N	N	N	N	N	N	N	N	8
9													9
10	O		O	O	O	O	O	O	O	O	O	O	10
11													11
12													12
13													13
14													14
15	R		R	R	R	R	R	R	R	R	R	R	15
16	E		E	E	E	E	E	E	E	E	E	E	16
17													17
18	C		C	C	C	C	C	C	C	C	C	C	18
19													19
20	O		O	O	O	O	O	O	O	O	O	O	20
21	R		R	R	R	R	R	R	R	R	R	R	21
22													22
23	D		D	D	D	D	D	D	D	D	D	D	23
24													24
25		63.02 A											25
26		62.16 A											26
27													27
28		61.88 A											28
29		62.34 A											29
30													30
31													31

INSTANTANEOUS MAXIMUM GAGE HEIGHT, 1984-85

DATE	TIME	G.H.
November 25	1245	63.41

REMARKS:

Station located at north end of weir, 2.0 miles north of Colusa.

Gage heights below weir crest (elevation 61.80 feet) are not indicative of flow over weir.

Discharge records are available in this publication as station A02981, Colusa Weir Spill to Butte Basin.

Period of record for gage height is 1935 to date.

The datum for this station from 1935 to present is 0.00, USED.

FOR PERIOD OF RECORD BEGINNING 1940:

INSTANTANEOUS MAXIMUM	GAGE HEIGHT	DATE	TIME
	70.6	March 1, 1940	NA

A = Mean gage height for period of flow.

E = Estimated. NR = No Record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02301 SACRAMENTO RIVER AT TISDALE WEIR

LOCATION: LAT 39-01-38, LONG 121-49-16, T14N, R1E, SEC 35, MD B&M

SUTTER COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07.A0

WATER YEAR OCTOBER 1984 through SEPTEMBER 1985

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1													1
2													2
3													3
4													4
5			45.50A										5
6													6
7													7
8	N			N	N	N	N	N	N	N	N	N	8
9													9
10	O			O	O	O	O	O	O	O	O	O	10
11			45.86A										11
12			46.94										12
13			46.40										13
14		46.40A	45.71A										14
15	R	46.04		R	R	R	R	R	R	R	R	R	15
16	E	45.47A		E	E	E	E	E	E	E	E	E	16
17		45.48A											17
18	C	45.58A		C	C	C	C	C	C	C	C	C	18
19													19
20	O			O	O	O	O	O	O	O	O	O	20
21	R			R	R	R	R	R	R	R	R	R	21
22													22
23	D			D	D	D	D	D	D	D	D	D	23
24													24
25		47.36A											25
26		47.27											26
27		46.15A											27
28		46.26A											28
29		47.42											29
30		46.42A											30
31													31

INSTANTANEOUS MAXIMUM GAGE HEIGHT, 1984-85

DATE TIME G.H.
NR

REMARKS:

Station located west of north end of weir, 5.0 miles southeast of Grimes.

Gage heights below weir crest (elevation 45.45 feet) are not indicative of flow over weir.

Discharge records are available as station A02960, Tisdale Weir Spill to Sutter Bypass.

Period of record for gage height is January 1935 to date (flood season only).

The datum for this station from 1935 to present is 0.00, USED.

FOR PERIOD OF RECORD FOR GAGE HEIGHT FROM 1935:

	GAGE HEIGHT	DATE	TIME
INSTANTANEOUS MAXIMUM	53.3	March 1, 1940	NA

A = Mean gage height for period of flow.

E = Estimated. NR = No Record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02976 COLUSA BASIN DRAIN AT HIGHWAY 20

LOCATION: LAT 39-11-42, LONG 122-03-36, T16N, R02W, SEC. 34, MD B&M COLUSA COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07-B1

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1984 through 1985													
1	39.90	39.97	42.61	38.85	38.23	38.53	38.64	39.78	44.17	43.17	44.55	45.56	1
2	39.79	40.03	41.97	38.83	38.13	38.46	39.16	39.99	43.69	43.29	44.67	45.62	2
3	39.57	39.85	44.60	38.66	38.12	38.33	38.79	39.92	43.18	43.27	44.54	45.93	3
4	39.47	39.64	45.91	38.55	38.08	38.28	38.70	40.28	42.81	43.59	44.55	46.42	4
5	39.51	39.62	45.01	38.35	38.02	38.18	38.65	40.53	42.65	43.77	44.40	46.44	5
6	39.91	39.64	43.98	38.34	38.03	38.37	38.77	40.78	42.42	43.72	44.40	46.44	6
7	39.95	39.89	42.68	38.61	38.03	38.69	39.01	41.26	41.67	43.66	44.39	46.54	7
8	39.97	40.28	41.84	38.94	39.17	39.09	39.92	41.41	41.35	43.81	44.24	47.02	8
9	39.59	40.12	41.29	38.94	38.92	38.52	39.14	42.32	41.22	43.77	44.26	48.14	9
10	39.30	40.14	42.65	38.80	38.41	38.39	39.70	42.83	41.32	43.60	44.18	48.80	10
11	39.65	41.68	44.74	38.74	38.24	38.91	40.98	43.10	40.74	43.59	44.22	48.84	11
12	40.01	42.27	43.79	39.07	38.16	38.79	39.66	43.51	40.16	44.07	44.14	48.46	12
13	39.63	45.06	42.37	39.81	38.12	38.51	39.89	44.29	40.63	44.29	44.04	47.60	13
14	39.16	46.28	41.54	40.07	38.09	38.35	40.14	44.80	40.15	44.65	44.10	46.46	14
15	39.07	45.69	40.92	40.60	38.09	38.42	40.18	44.75	39.58	44.41	44.03	45.03	15
16	38.66	46.55	40.64	40.24	38.09	38.28	40.39	44.34	39.42	44.07	44.20	43.95	16
17	38.78	47.63	40.31	40.10	38.07	38.46	41.14	43.77	39.58	43.94	44.37	43.64	17
18	38.84	47.05	39.97	39.62	38.10	38.42	41.22	44.05	39.91	44.03	44.88	43.15	18
19	39.03	46.02	39.88	39.30	38.07	38.31	40.86	44.24	40.59	44.20	45.40	42.41	19
20	39.53	44.68	39.65	39.27	38.08	38.23	40.34	44.33	41.92	44.25	45.46	41.81	20
21	39.48	45.39	39.48	39.18	38.06	38.43	40.61	44.58	42.45	44.42	45.37	41.33	21
22	39.53	44.63	39.26	39.44	38.02	38.21	40.86	44.54	42.64	44.89	45.35	41.47	22
23	39.53	43.12	39.19	39.19	38.09	38.07	40.92	44.12	42.99	44.91	45.45	41.33	23
24	39.65	44.17	39.13	39.04	38.12	38.15	40.25	44.01	43.13	44.63	45.54	40.96	24
25	39.81	45.89	39.07	38.83	38.08	38.11	39.86	44.19	42.64	44.20	45.47	40.74	25
26	39.74	44.96	39.05	38.58	38.47	38.15	40.29	43.89	42.14	44.06	45.25	41.01	26
27	39.89	43.56	39.02	38.45	38.13	38.79	39.33	43.95	42.19	44.05	45.56	41.01	27
28	39.84	45.38	38.98	38.44	38.18	38.56	38.55	44.03	42.46	44.36	45.44	40.81	28
29	40.05	45.22	38.94	38.39		38.43	38.52	44.52	42.95	44.41	45.46	40.72	29
30	40.01	43.62	38.95	38.41		38.39	38.18	44.63	43.22	44.41	45.70	40.67	30
31	39.92		38.92	38.31		38.33		44.55		44.43	45.64		31

REMARKS:

Station located on the downstream side of the State Highway 20 bridge, 3.0 miles west of Colusa.

Stage-discharge relationship affected by backwater conditions created by downstream diversion structures.

Station moved from the upstream side of the bridge on June 14, 1979 to its present location.

Period of record for discharge is June 1924 to December 1940 (irrigation season only), May 1941 to date. Period of record for gage height is same as discharge.

Mean daily discharge and peak discharge records, for this station, for the 1984-85 water year are available in the discharge section of this publication.

The datum for this station from 1957 to present is 0.0, USED. Prior to 1957, the datum was 37.09, USED.

E = Estimated. NR = No record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02945 COLUSA BASIN DRAIN AT KNIGHTS LANDING

LOCATION: LAT 38-48-06, LONG 121-43-18, T11N, R02E, SEC. 14, MD B&M

YOLO COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07.DO

WATER DAY	YEAR OCT	OCTOBER NOV	1984 DEC	through JAN	SEPTEMBER FEB	1985 MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	23.27	23.60	27.61	22.37	22.18	22.64	23.07	23.70	25.08	24.93	24.81	24.55	1
2	22.55	23.80	27.28	22.28	22.13	22.77	23.08	24.12	24.83	24.66	24.84	24.62	2
3	22.34	24.10	27.29	22.25	22.00	23.00	23.09	24.60	24.53	24.96	24.73	24.66	3
4	22.54	23.75	27.86	22.07	21.92	23.06	23.06	24.38	24.65	24.69	24.63	24.87	4
5	22.54	22.90	28.02	21.95	21.95	23.06	23.00	24.15	24.85	24.87	24.81	25.25	5
6	22.56	21.90	27.87	22.41	22.59	23.07	22.93	24.11	24.71	25.02	24.89	25.48	6
7	22.73	21.62	27.58	22.76	23.06	23.08	22.89	24.78	24.42	25.07	24.84	25.58	7
8	22.85	21.71	27.22	23.03	23.53	23.09	23.01	25.27	24.64	25.02	24.80	25.62	8
9	22.92	21.96	26.92	23.04	24.32	23.09	23.14	24.74	24.84	24.78	24.64	25.88	9
10	22.81	22.04	26.77	23.05	25.27	23.09	23.04	24.59	24.67	24.68	24.40	26.24	10
11	22.74	22.27	27.20	23.05	25.43	23.08	23.14	24.50	24.78	24.79	24.27	26.29	11
12	22.56	23.08	27.56	23.05	24.77	23.08	23.69	24.69	24.85	24.86	24.32	26.36	12
13	21.89	25.61	27.33	23.05	23.89	23.07	23.61	24.93	24.67	24.94	24.36	26.49	13
14	21.54	27.69	26.93	23.05	23.18	23.07	23.55	24.97	24.83	25.14	24.41	26.44	14
15	21.22	28.11	26.73	23.07	23.07	23.08	23.59	25.10	24.53	25.11	24.40	26.21	15
16	21.01	28.21	26.52	23.19	23.07	23.08	23.68	24.94	24.65	24.85	24.42	25.55	16
17	20.88	28.39	26.36	23.57	23.07	23.08	23.88	24.75	24.78	24.73	24.42	24.74	17
18	20.84	28.56	26.21	23.79	23.06	23.08	24.22	24.87	24.79	24.73	24.48	24.31	18
19	20.85	28.65	26.11	23.22	23.07	23.08	24.45	25.05	24.65	24.74	24.68	24.02	19
20	20.94	28.56	26.03	23.05	23.04	23.07	24.47	25.05	24.80	24.60	24.74	23.20	20
21	21.15	28.40	25.95	23.05	23.03	23.08	24.26	24.79	24.95	24.92	25.00	22.76	21
22	21.19	28.27	25.88	23.06	23.01	23.06	24.22	24.76	24.96	24.93	24.77	22.46	22
23	21.24	27.95	25.56	23.04	23.00	23.04	24.27	24.80	25.17	24.93	24.39	22.34	23
24	21.27	27.65	24.97	22.99	23.01	23.06	24.24	24.72	25.04	24.90	24.31	22.23	24
25	21.29	27.88	24.19	22.92	23.04	23.06	24.04	24.70	24.48	24.73	24.34	22.08	25
26	21.69	28.06	23.74	23.01	22.97	23.01	23.86	24.85	24.77	24.76	24.23	21.96	26
27	22.38	27.90	23.48	22.97	23.02	23.08	23.72	24.92	24.74	24.90	24.10	22.02	27
28	22.65	28.03	23.16	22.79	22.79	23.08	23.23	24.87	24.70	24.90	24.13	21.99	28
29	22.77	28.15	22.99	22.46		23.08	23.02	24.96	24.77	24.91	24.17	21.92	29
30	22.90	28.01	22.71	22.20		23.08	23.57	25.12	25.07	24.84	24.35	21.86	30
31	23.25		22.50	22.21		23.08		25.16		24.73	24.45		31

REMARKS:

Station located at Knights Landing Outfall Gates, 0.3 miles west of Knights Landing.
Tributary to Sacramento River.

Flow regulated by outfall gates.

Period of record for discharge is May 1924 to October 1939 (irrigation season only).
January 1940 to date. Period of record for gage height is same discharge.

Mean daily discharge and peak discharge records, for this station, for the 1984-85 water year
are available in the discharge section of this publication.

The datum for this station from 1924 to present is 0.0, USED.

E = Estimated. NR = No record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02200 SACRAMENTO RIVER AT KNIGHTS LANDING

LOCATION: LAT 38-48-12, LONG 121-42-54, T11N, R02E, SEC. 14, MD B&M

SUTTER COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07.A0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	18.82	17.80	29.93	21.81	19.21	18.39	19.26	14.90	18.14	18.24	17.91	NR	1
2	18.90	18.03	28.66	21.73	19.12	18.26	19.00	14.95	18.12	18.34	17.91	NR	2
3	18.74	18.38	27.82	21.59	19.10	18.12	18.88	15.32	18.11	18.46	17.99	NR	3
4	18.60	18.85	28.46	21.06	19.08	18.05	18.89	15.74	17.80	18.83	17.98	NR	4
5	18.51	19.47	29.89	20.67	19.13	17.98	18.77	15.85	17.16	18.87	17.97	NR	5
6	18.58	19.37	29.98	20.29	18.98	18.06	18.48	15.87	16.98	18.80	17.95	NR	6
7	18.72	19.17	29.70	20.21	18.95	18.39	18.30	15.64	16.25	18.72	17.85	NR	7
8	18.74	19.32	29.33	20.29	19.37	19.09	18.24	15.79	15.69	18.79	17.73	NR	8
9	18.53	19.71	28.86	20.54	23.95	19.77	18.12	16.12	15.70	18.87	17.74	NR	9
10	18.10	20.38	28.57	20.72	27.31	19.85	17.76	16.31	16.25	18.86	17.84	NR	10
11	17.73	20.69	28.88	20.69	25.32	19.72	17.24	16.53	16.49	18.87	17.83	NR	11
12	17.76	21.64	30.60	20.75	23.42	20.36	16.95	16.56	16.46	18.95	17.84	NR	12
13	18.50	25.14	30.94	20.52	22.14	20.44	16.69	16.64	16.19	18.87	17.79	NR	13
14	18.34	27.95	30.32	20.42	21.18	19.87	16.45	16.79	15.72	19.01	17.76	NR	14
15	17.86	29.25	29.63	20.29	20.12	19.11	16.78	17.01	15.47	19.29	17.82	NR	15
16	17.60	28.82	29.24	20.32	19.38	18.27	17.20	18.63	15.23	19.38	17.85	NR	16
17	17.48	28.22	28.87	20.19	19.02	17.89	17.30	19.77	15.27	19.55	17.92	NR	17
18	17.51	28.96	28.33	20.10	18.84	17.81	17.37	19.95	15.26	19.66	18.14	NR	18
19	17.66	28.80	27.55	20.26	18.67	17.73	17.38	18.78	15.46	19.68	18.46	NR	19
20	17.62	28.89	26.93	19.96	18.66	17.69	17.22	17.36	15.63	19.82	18.40	NR	20
21	17.62	28.39	26.44	20.01	18.93	17.56	16.99	17.25	15.98	19.83	17.70	NR	21
22	17.58	28.63	25.78	19.87	19.10	17.36	16.95	17.28	16.21	20.07	NR	NR	22
23	17.47	28.51	25.09	19.76	19.08	17.22	17.17	17.14	16.24	20.25	NR	NR	23
24	17.06	27.91	24.37	19.62	18.98	17.03	17.03	17.10	16.72	20.23	NR	NR	24
25	16.80	29.48	23.58	19.52	18.94	16.93	16.62	17.23	17.04	20.01	NR	NR	25
26	16.69	31.00	23.18	19.44	18.89	16.96	16.25	17.23	16.81	19.49	NR	NR	26
27	16.75	30.48	22.93	19.33	18.85	17.62	15.76	17.54	16.77	18.74	NR	NR	27
28	16.94	29.67	22.60	19.31	18.67	18.66	15.18	17.76	16.47	18.29	NR	NR	28
29	17.38	31.12	22.46	19.29	19.54	14.76	17.96	17.06	18.11	NR	NR	NR	29
30	17.56	31.13	22.14	19.31	19.78	14.85	18.15	17.73	17.96	NR	NR	NR	30
31	17.68		21.94	19.22		19.66	18.24		17.94	NR			31

INSTANTANEOUS MAXIMUM GAGE HEIGHT, 1984-85

DATE TIME G.H.
November 1 1945 31.45

REMARKS:

Station located just above the Southern Pacific Railroad bridge, 13.1 miles above Feather River immediately northeast of Knights Landing.

Station affected by backwater from Feather River and Sutter Bypass during periods of high flow.

Currently maintained by the Department since October 1983 as a stage only station. Formerly operated by the USGS (USGS station number 11391000) as a discharge station from 1921 to 1980.

Period of record for discharge is April 1921 to October 1939 (low water periods only), June 1940 to September 1980. Period of record for gage height is October 1983 to date.

The datum for this station from 1919 to present is -3.02, USCGS.

FOR PERIOD OF RECORD BEGINNING 1921:

	GAGE	DATE	TIME
INSTANTANEOUS MAXIMUM	HEIGHT	February 8, 1942	NA
	41.83		

E = Estimated. NR = No record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02972 BUTTE SLOUGH NEAR MERIDIAN

LOCATION: LAT 39-10-05, LONG 121-53-28, T15N, R01E, SEC. 06, MD B&M

SUTTER COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07.C0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	40.77	42.15	48.21	43.14	41.57	40.67	41.73	41.51	43.01	42.43	44.27	45.71	1
2	40.87	41.61	48.09	43.15	41.45	40.89	41.70	41.69	42.97	42.45	44.29	45.66	2
3	40.82	40.76	47.94	42.86	41.43	40.53	41.92	41.91	42.71	42.63	44.00	45.67	3
4	40.81	41.25	47.81	42.45	41.44	40.49	42.05	42.35	42.25	43.04	43.56	45.79	4
5	40.87	41.50	47.71	42.32	41.35	40.54	41.93	42.17	42.15	43.16	43.40	45.90	5
6	40.90	41.20	47.58	42.30	41.31	40.75	41.79	41.91	42.12	43.24	43.18	45.95	6
7	40.93	41.14	47.39	42.32	41.25	41.24	41.66	41.80	42.73	43.20	43.18	45.96	7
8	40.96	41.48	47.07	42.47	41.51	41.66	41.78	41.88	42.42	43.27	43.33	46.02	8
9	40.99	42.01	46.76	42.77	44.26	42.15	42.10	41.76	41.96	43.02	43.40	46.40	9
10	40.99	42.62	46.50	42.89	46.53	41.98	42.01	41.57	42.18	42.66	43.41	46.90	10
11	40.97	42.89	46.53	42.95	45.87	41.96	41.77	41.54	42.06	42.52	43.49	47.11	11
12	41.05	45.13	46.66	42.86	44.64	42.61	41.32	41.56	41.88	42.62	43.52	47.18	12
13	41.16	47.11	46.61	42.83	43.82	42.58	41.55	42.05	41.80	42.96	43.53	47.19	13
14	41.13	47.50	46.45	42.65	43.12	41.85	42.66	42.60	41.72	43.39	43.61	47.06	14
15	41.03	47.67	46.21	42.81	42.47	41.21	42.89	42.80	41.74	43.79	43.73	46.84	15
16	40.88	47.74	46.01	43.08	41.99	41.43	42.90	43.07	42.20	44.14	43.79	46.60	16
17	40.88	47.72	46.51	43.09	41.82	41.42	42.67	42.73	42.17	44.07	44.24	45.86	17
18	40.76	47.76	46.48	42.94	41.66	41.42	42.01	42.57	41.65	43.85	44.69	45.08	18
19	40.90	47.77	46.22	42.76	41.50	41.41	41.94	41.95	41.22	43.67	45.10	44.60	19
20	41.31	47.77	45.99	42.62	41.53	41.41	42.05	42.52	41.29	43.43	45.76	44.33	20
21	41.72	47.78	45.80	42.50	41.48	41.63	42.16	42.82	41.57	43.49	46.06	43.95	21
22	41.99	47.72	45.32	42.43	41.34	42.19	42.30	42.98	41.79	43.70	46.01	43.56	22
23	42.21	47.66	44.87	42.31	41.22	42.18	42.44	43.30	41.70	44.00	45.91	43.31	23
24	42.50	47.59	44.61	42.25	41.11	41.92	42.04	43.18	42.13	44.14	45.93	42.78	24
25	42.67	47.69	44.35	42.12	41.10	42.23	41.40	43.02	42.88	44.26	45.89	42.10	25
26	42.43	48.03	44.15	42.04	40.96	42.70	41.27	42.96	43.04	44.29	45.73	41.36	26
27	41.85	48.09	43.87	41.93	40.89	41.48	41.56	42.94	42.81	44.26	45.42	40.96	27
28	41.68	48.16	43.75	41.88	40.78	42.55	41.45	42.79	42.64	44.24	45.27	41.07	28
29	41.74	48.19	43.59	41.83		42.49	41.45	42.88	42.42	44.31	45.22	41.22	29
30	41.84	48.24	43.35	41.77		42.32	41.50	43.09	42.37	44.35	45.39	41.27	30
31	41.95		43.21	41.71		41.97		43.01		44.31	45.61		31

REMARKS:

Station located on right bank 0.5 miles upstream from Farman Road 1.7 miles northeast of Meridian. Tributary to Sutter Bypass.

Stage-discharge relationship affected by backwater conditions created by downstream diversion structures. Flow during summer months is made up almost entirely of return water from lands irrigated by Feather River diversions. During flood periods, Sacramento River water enters Butte Basin above Butte City from bank spill and spill over Moulton and Colusa Weirs.

Period of record for discharge is January 1939 to date. Period of record for gage height is November 1934 to May 1937 (flood season only), October 1937 to date.

Mean daily discharge and peak discharge records, for this station, for the 1984-85 water year are available in the discharge section of this publication.

The datum for this station from 1934 to present is 0.0, USED.

E = Estimated. NR = No record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A05929 WADSWORTH CANAL NEAR SUTTER (upper station)

LOCATION: LAT 39-09-12, LONG 121-44-00, T15N, R02E, SEC. 15, MD B&M

SUTTER COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: A-07.C0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	NR	39.75	40.00	39.01	38.73	38.50	40.70	39.04	40.72	39.72	39.72	41.19	1
2	NR	39.10	39.87	38.97	38.72	38.63	NR	39.69	40.61	39.45	39.59	41.24	2
3	NR	38.68	40.56	38.94	38.71	38.61	40.19	39.87	40.85	39.52	39.71	41.42	3
4	40.26	38.56	40.25	38.97	38.71	38.15	40.08	40.26	40.77	39.54	39.68	41.54	4
5	40.41	38.66	40.00	38.94	38.69	38.48	40.03	40.00	40.55	39.25	39.50	41.69	5
6	40.26	38.65	39.85	38.95	38.69	38.11	40.25	39.88	40.36	39.01	39.38	41.58	6
7	40.27	38.61	39.70	38.97	38.73	38.66	40.31	39.51	39.98	39.21	39.74	41.52	7
8	40.33	38.72	39.57	38.96	40.24	39.56	40.18	39.38	40.37	39.30	39.69	41.86	8
9	40.25	38.66	39.50	38.95	39.98	40.36	40.01	39.97	40.24	38.80	39.76	42.18	9
10	40.33	38.64	39.70	38.94	39.51	40.55	40.32	39.98	39.84	38.74	39.78	42.42	10
11	40.49	38.86	39.77	38.91	39.35	40.51	39.84	39.56	39.30	39.23	39.56	42.18	11
12	40.45	39.15	39.67	38.89	39.24	39.89	40.04	39.75	39.18	39.35	39.52	41.73	12
13	40.30	39.55	39.57	38.94	39.16	39.75	40.46	39.96	38.91	39.51	39.66	41.59	13
14	40.28	39.33	39.49	38.95	39.09	39.95	40.98	39.95	38.71	39.97	40.11	41.42	14
15	40.31	39.07	39.74	38.91	39.05	40.12	40.76	40.19	39.01	39.93	40.22	41.21	15
16	40.28	39.18	40.00	38.86	39.02	40.12	40.08	39.84	39.19	39.83	40.14	41.02	16
17	40.12	39.26	39.71	38.84	38.99	40.25	40.37	39.66	39.35	39.69	39.84	40.85	17
18	40.29	39.81	39.61	38.85	38.96	40.32	40.32	40.55	38.89	39.73	40.10	40.79	18
19	40.25	39.50	39.58	38.83	38.94	40.16	40.49	40.88	38.58	39.82	40.34	40.79	19
20	39.98	39.43	39.44	38.81	38.89	39.91	40.59	40.74	38.58	39.46	40.38	40.62	20
21	39.97	39.60	39.35	38.89	38.84	39.75	40.68	40.80	38.90	39.54	40.44	40.37	21
22	39.96	39.41	39.32	38.94	38.84	39.84	40.25	40.69	39.66	39.76	40.47	40.22	22
23	40.12	39.26	39.25	38.88	38.81	40.40	39.92	40.66	39.71	39.56	40.38	40.11	23
24	40.07	40.70	39.25	38.83	38.79	40.56	39.95	41.22	39.60	39.59	40.77	40.05	24
25	39.97	40.40	39.20	38.80	38.76	40.48	40.26	40.84	39.50	39.50	40.63	40.16	25
26	39.96	39.96	39.17	38.79	38.75	40.50	40.46	40.89	39.61	39.51	41.01	40.22	26
27	39.92	40.27	39.14	38.75	38.64	41.33	40.19	41.08	39.53	39.35	41.04	40.22	27
28	39.99	41.99	39.11	38.73	38.71	40.99	39.46	40.93	39.55	39.48	41.02	40.25	28
29	40.07	40.81	39.07	38.75		41.00	38.84	40.64	39.60	39.64	40.95	40.31	29
30	40.05	40.24	39.04	38.75		41.14	39.21	40.61	39.85	39.68	41.04	40.28	30
31	40.17		39.03	38.74		41.10		40.60		39.76	41.08		31

REMARKS:

Station located at South Butte Road bridge, 0.9 miles east of Sutter. Tributary to Sutter Bypass.

This station and one 2.2 miles downstream are used to determine the slope for rating of canal. This flow and flow of Butte Slough to Sutter Bypass make up entire Feather River contribution to the Sutter Bypass. Stage-discharge relationship affected by backwater conditions created by downstream diversion structures.

Records from January 1939 to March 1961 previously published as Wadsworth Canal at Butte House Road. Period of record for discharge is March 1961 to date. Period of record for gage height is same as discharge.

Mean daily discharge and peak discharge records, for this station, for the 1984-1985 water year are available in the discharge section of this publication.

The datum for this station from 1961 to present is 0.00, USED.

E = Estimated. NR = No Record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: A02927 SUTTER BYPASS AT RECLAMATION DISTRICT 1500 PUMPING PLANT
LOCATION: LAT 38-47-06, LONG 121-39-12, T11N, R03E, SEC. 20, MD B&M SUTTER COUNTY
DRAINAGE AREA: Not available HYDROLOGIC AREA: A-07.A0

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	15.09	13.85	26.47	17.33	14.61	14.43	15.38	12.42	16.11	14.87	15.60	15.88	1
2	15.13	14.25	25.56	17.26	14.63	14.21	15.00	12.63	16.02	15.07	15.61	15.90	2
3	14.76	14.49	24.65	17.15	14.76	14.03	14.83	13.06	15.85	15.22	15.60	15.85	3
4	14.46	14.47	24.21	16.81	14.68	13.95	14.82	13.46	15.68	15.46	15.52	15.85	4
5	14.27	14.66	24.62	16.43	14.81	13.73	14.73	13.61	15.28	15.38	15.44	15.79	5
6	14.28	14.67	24.83	15.98	14.76	13.74	14.51	13.64	14.93	15.29	15.34	15.95	6
7	14.61	14.65	24.67	15.88	14.67	14.24	14.28	13.36	14.44	15.17	15.16	16.47	7
8	14.58	14.82	24.34	15.98	15.65	15.36	14.21	13.34	14.07	15.16	15.06	16.08	8
9	14.60	15.24	23.91	16.17	21.38	15.60	14.31	13.42	13.78	15.19	15.06	16.30	9
10	14.34	15.65	23.51	16.46	22.68	15.62	14.18	13.51	14.19	15.12	15.11	16.91	10
11	14.18	16.00	23.50	16.35	21.02	16.00	13.66	13.71	14.32	15.06	15.11	17.38	11
12	14.01	16.62	24.31	16.27	19.17	16.50	13.35	13.85	14.27	15.12	15.14	17.43	12
13	14.42	18.84	25.20	16.10	17.82	16.21	13.23	14.06	14.05	15.17	15.19	17.13	13
14	14.51	21.19	25.21	16.06	16.83	15.64	13.21	14.28	13.67	15.39	15.17	16.93	14
15	14.18	22.69	24.57	15.92	15.92	15.01	13.59	14.61	13.34	15.74	15.19	16.69	15
16	13.87	22.85	24.07	15.89	15.21	14.30	14.11	15.28	13.26	15.98	15.33	16.33	16
17	13.64	22.40	23.72	15.74	14.94	13.96	14.23	15.88	13.35	16.33	15.50	16.11	17
18	13.52	22.70	23.24	15.66	14.72	13.87	14.15	15.95	13.50	16.37	15.64	15.82	18
19	13.57	22.83	22.64	15.67	14.59	13.76	14.23	15.31	13.56	16.49	15.88	15.31	19
20	13.57	22.91	22.12	15.40	14.57	13.75	14.08	14.70	13.55	16.50	15.96	14.41	20
21	13.55	22.72	21.65	15.30	14.98	13.48	13.93	14.74	13.72	16.47	16.29	14.17	21
22	13.53	22.71	21.12	15.12	15.32	13.27	14.01	14.85	13.79	16.58	16.33	14.09	22
23	13.50	22.70	20.52	14.96	15.36	13.27	14.01	14.91	13.83	16.75	16.20	13.79	23
24	13.19	22.38	19.95	14.80	15.28	13.30	13.62	14.92	14.22	16.78	16.05	13.33	24
25	13.01	23.27	19.35	14.69	15.23	13.34	13.26	15.15	14.50	16.66	16.03	12.95	25
26	13.10	24.87	18.93	14.63	15.22	13.39	13.10	15.21	14.30	16.33	15.97	12.63	26
27	13.15	25.49	18.61	14.56	15.20	14.31	12.83	15.39	14.11	15.89	15.93	12.62	27
28	13.20	25.64	18.17	14.46	14.86	15.20	12.54	15.58	14.04	15.63	15.90	12.79	28
29	13.42	25.84	17.85	14.48		15.80	12.35	15.78	14.31	15.52	15.84	12.78	29
30	13.53	26.54	17.58	14.51		15.93	12.21	15.93	14.61	15.51	15.78	12.74	30
31	13.64		17.41	14.54		15.85		16.02		15.59	15.85		31

INSTANTANEOUS MAXIMUM GAGE HEIGHT, 1984-85

DATE TIME G.H.
December 1 0045 26.80

REMARKS:

Station located on west levee, 3.7 miles southeast of Knights Landing.

Period of record for discharge is not available.

Period of record for gage height is 1915 to February 8, 1984 and October 1, 1986 to date.

Mean daily discharge and peak discharge records, for this station, for the 1984-85 water year are available in the discharge section of this publication.

The datum for this station from 1915 to present is 0.00, USED

FOR PERIOD OF RECORD BEGINNING 1915:

GAGE HEIGHT DATE TIME
INSTANTANEOUS MAXIMUM Not available.

E = Estimated. NR = No Record.

TABLE B-2 (continued)
DAILY MEAN STAGE
(in feet)

STATION NUMBER: G31139 EAGLE LAKE NEAR SPAULDING

LOCATION: LAT 40-39-02, LONG 120-47-20, T32N, R10E, SEC. 1, MD B&M

LASSEN COUNTY

DRAINAGE AREA: Not available

HYDROLOGIC AREA: G-08.C1

WATER DAY	YEAR OCT	1984 NOV	through DEC	SEPTEMBER JAN	1985 FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	DAY
1	11.94	11.81	12.08	12.10	12.20		NR	12.67	12.32	11.92	11.45	10.92	1
2	11.93	11.86	12.08	12.10	12.21		NR	12.66	12.32	11.91	11.44	10.92	2
3	11.93	11.87	12.08	12.10	12.21		NR	12.64	12.32	11.90	11.43	10.92	3
4	11.93	11.87	12.09	12.10	12.21		NR	12.63	12.31	11.89	11.42	10.91	4
5	11.92	11.87	12.08	12.10	12.22		NR	12.63	12.30	11.88	11.40	10.89	5
6	11.91	11.89	12.08	12.11	12.22		NR	12.62	12.30	11.86	11.39	10.89	6
7	11.91	11.90	12.07	12.11	12.24		NR	12.60	12.28	11.85	11.36	10.88	7
8	11.90	11.92	12.08	12.12	12.34	N	NR	12.59	12.27	11.83	11.33	10.93	8
9	11.89	11.92	12.08	12.12	12.35		NR	12.58	12.26	11.82	11.32	10.95	9
10	11.88	11.91	12.09	12.12	12.34	O	NR	12.56	12.26	11.80	11.29	10.94	10
11	11.89	11.93	12.09	12.12	12.34		NR	12.55	12.25	11.79	11.28	10.93	11
12	11.89	11.94	12.07	12.12	12.34		NR	12.54	12.25	11.77	11.26	10.92	12
13	11.86	11.94	12.08	12.12	12.34		NR	12.54	12.23	11.76	11.25	10.91	13
14	11.85	11.94	12.08	12.13	12.34		NR	12.52	12.22	11.75	11.24	10.89	14
15	11.84	11.95	12.09	12.13	12.35	R	NR	12.52	12.22	11.73	11.23	10.88	15
16	11.85	11.94	12.11	12.13	12.35	E	NR	12.50	12.21	11.71	11.23	10.88	16
17	11.86	11.94	12.12	12.13	12.35		NR	12.49	12.20	11.68	11.21	10.86	17
18	11.86	11.95	12.11	12.13	12.35	C	NR	12.49	12.21	11.66	11.19	10.86	18
19	11.87	11.94	12.10	12.14	NR		NR	12.48	12.18	11.64	11.17	10.84	19
20	11.86	11.95	12.10	12.14	NR	O	NR	12.47	12.17	11.63	11.15	10.84	20
21	11.86	11.97	12.10	12.14	NR	R	NR	12.47	12.16	11.62	11.13	10.83	21
22	11.85	11.97	12.10	12.14	NR		NR	12.46	12.14	11.61	11.11	10.83	22
23	11.85	11.97	12.10	12.14	NR	D	NR	12.46	12.12	11.60	11.11	10.82	23
24	11.85	12.00	12.10	12.14	NR		NR	12.45	12.07	11.59	11.10	10.82	24
25	11.84	12.01	12.10	12.15	NR		NR	12.44	12.05	11.58	11.09	10.82	25
26	11.83	12.01	12.10	12.16	NR		12.68	12.43	12.03	11.57	11.07	10.81	26
27	11.83	12.04	12.11	12.17	NR		12.68	12.41	12.01	11.56	11.04	10.81	27
28	11.83	12.08	12.11	12.17	NR		12.68	12.38	12.00	11.55	11.02	10.80	28
29	11.82	12.08	12.11	12.18			12.67	12.36	11.96	11.53	10.99	10.79	29
30	11.81	12.08	12.10	12.18			12.67	12.36	11.93	11.51	10.97	10.79	30
31	11.81		12.10	12.18				12.34		11.47	10.95		31

INSTANTANEOUS MAXIMUM GAGE HEIGHT, 1984-85

DATE TIME G.H.

NR

REMARKS:

Station located in Pine Creek outlet on west shore at Eagle Lake about 19 miles north-west of Susanville. Prior to October 1, 1976 station was located on east shore at tunnel entrance (as G32100, Eagle Lake near Susanville).

Stage affected by moderate to high winds at times.

The datum for this station from 1956 to present is 5095.06, USCGS.

FOR PERIOD OF RECORD BEGINNING 1976:

INSTANTANEOUS MAXIMUM	GAGE HEIGHT	DATE	TIME
	13.98	April 25, 1984	1600

E = Estimated. NR = No Record.

APPENDIX C

SURFACE WATER QUALITY

APPENDIX C

SURFACE WATER QUALITY

Appendix C presents the results of chemical analyses of surface water samples collected in Northeastern California from October 1, 1984 to September 30, 1985. The data are presented in six categories:

Table	Title
C-1	Mineral Analyses of Surface Water
C-2	Minor Element Analyses of Surface Water
C-3	Miscellaneous Analyses of Surface Water
C-4	Nutrient Analyses of Surface Water
C-5	Pesticide Analyses of Surface Water
C-6	Supplemental Minor Element Analyses of Surface Water

To facilitate use of the surface water quality tables, a sampling station index is provided on pages 122 through 124. This index lists the stations in the tables and gives location data for each. The space for station names is restricted to a combination of 25 letters and/or numerals; therefore, some abbreviations are necessary. Pertinent abbreviations are:

A	- at	MO	- mouth
AB	- above	N	- north
AGRI	- agricultural	NE	- northeast
BAS	- basin	NF	- north fork
BL	- below	NO	- number
BP	- bypass	NR	- near
BR	- bridge	PL	- pipeline
C or CR	- creek	PLT	- plant
CA	- canal	PP	- power plant
CN	- canyon	PUPL	- pumping plant
DIV	- diversion	R	- river
DM	- dam	R-D	- reclamation district
DR	- drain	RD	- road
DWR	- Department of Water Resources	RES	- reservoir
E	- east	S	- south
EF	- east fork	SF	- south fork
F	- fork	SI	- side
FY	- ferry	SL or SLU	- slough
HWY	- highway	SO	- southern
IS	- island	STP	- sewage treatment plant
JCT	- junction	T	- tract
L	- little	TRIB	- tributary
LNDG	- landing	UP	- upper
LK	- lake	VLY	- valley
LO	- lower	W	- west
M	- middle	WT	- water
MF	- middle fork	XING	- crossing

The number of pages referenced in the "analyses" column of the index indicates the extent of analyses for each station. Locations of the stations are shown on Figure 5, pages 126 through 132.

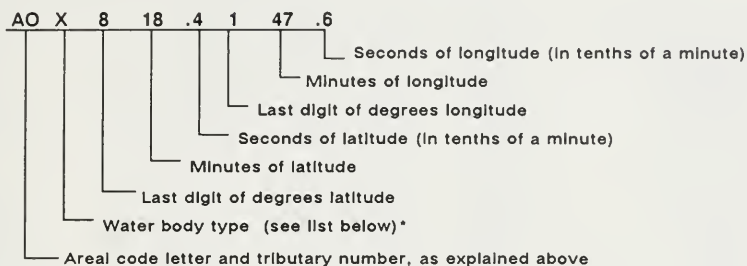
Surface water quality stations are listed in the tables by ascending station number. The station number appears on the left, the station name in the center, and the areal code on the right. The areal code is described on page 2.

Surface water quality stations are named after the stream and a nearby landmark or post office. An example is the station "Ulatis Creek at Brown Road." If a sampling station is situated at the site of a surface water measurement station, each uses the same name.

The first character of a surface water quality station number designates the basin in which the station is located and is one of the areal code letters shown in Figure 1. The second character, a numeral, designates a specific tributary area within that major basin. These two characters, therefore, indicate the general location of the station. In this appendix, data are reported for the basins and tributaries listed below:

BASIN		TRIBUTARY	
Ltr	Name	No.	Name
A	SACRAMENTO RIVER	0	Sacramento Valley Floor
		1	Pit River
		2	Shasta Lake
		3	Sacramento Valley Westside
		4	Sacramento Valley Northeast
		5	Feather River
		6	Yuba—Bear Rivers
		7	American River
		8	Cache Creek
B	SAN JOAQUIN RIVER	9	Putah Creek
		0	San Joaquin Valley Floor
		1	Cosumnes River
		2	Mokelumne—Calaveras River
		8	San Joaquin Valley Westside
G	NORTH LAHONTAN	9	Sacramento—San Joaquin
		3	Eagle Lake
		4	Susan River
		6	Herlong
		7	Truckee River
		8	Carson River
		9	Walker River

Surface water quality stations located on broad bodies of water have elements of latitude and longitude included in the station number to assist in location. The station "Ulatis Creek at Brown Road" is an example:



*Water Body Types

- C - canal
- D - river delta
- L - lake
- R - reservoir
- V - agricultural drain
- X - channel with two-directional flow

In order to increase the amount of information presented in the water quality tables, some columns have multiple headings and data are tabulated respectively. For example, the first column of Table C-1 shows the date of sample collection printed above the time of sampling so the data are tabulated in that order. If a part of the values for a multiple heading column are obtained, they will appear in the column with respect to the heading positions. If dashes (or no data) appear in a column, it means no data was obtained.

At the time of sampling, dissolved oxygen, pH, temperature, specific conductance and gage height are determined.

Abbreviations and codes used in each table are explained at the beginning of each table.

SAMPLING STATION INDEX, Northeastern California

Station	Station Number	Location		Areal Code	Beginning of Record	Analyses on Page(s)	Map Page
		Lat.	Long.				
AG-DR W-ED EMPIRE T-S-SIATHERTON	B9 V 803.6 129.9	38-03-37	121-29-52	B-01.00	2/85	168,176,182,198	131
AGRI-DR GRAND IS NR WALKER LNDG	B9 V 813.2 135.7	38-13-10	121-35-42	A-01.00	2/85	168,176,182,198	130
AGRI-DR TYLER IS BY VORMANS LNDG	B9 V 807.9 134.7	38-07-53	121-34-44	A-01.00	3/85	168,176,198	130
ALDER C A GLENBROOK	A8 5710.00	38-51-06	122-45-24	A-04.D1	10/79	160,174,192	130
AMERICAN R A SACTO WT PLT	A0 7140.10	38-33-35	121-24-57	A-05.B1	10/68	148,179,186,197	131
AMERICAN R A 16TH ST BR	A0 7125.01	38-35-47	121-28-33	A-05.B1	2/54	148,179,186	131
AMERICAN R BL NE STP BL PL	A0 7149.01	38-34-48	121-20-27	A-05.B1	7/78	148,179,186	131
AMERICAN R BL NIMBUS DM	A0 7180.00	38-38-08	121-13-36	A-05.B1	2/56	148,179,186	131
AMERICAN R SF NR KYBURZ	A7 4550.00	38-45-49	120-19-39	A-06.B5	6/56	155	131
ANTELOPE C NR MO NR RED BLUFF	A0 5220.50	40-06-30	122-06-35	A-13.B0	7/55	145	128
ANTELOPE LK NR DM	AN 0010.00	40-10-47	120-36-20	A-11.E4	5/75	135,179,185	129
BARKER SLU NR DOZIER	A0 9220.00	38-17-03	121-49-22	A-02.A0	12/51	148,173	130
BATTLE CR NR COTTONWOOD	A4 7110.00	40-23-54	122-08-08	A-17.A0	1/55	154	128
BEAR C NR RUMSEY	A8 1250.00	38-56-43	122-20-43	A-04.B0	12/68	157,190	130
BEAR R NR WHEATLAND	A0 6550.00	39-00-01	121-24-20	A-08.A0	5/51	147,179,186	131
BOTTLE ROCK PWR PLANT NR GLENBROOK	A8 5616.00	38-50-06	122-45-34	A-04.D1	7/85	159,174,192	130
BUTTE C NR CHICO	A4 1110.00	39-43-34	121-42-28	A-07.D0	3/52	154	128
BUTTE SLU NR MERIDIAN	A0 2972.00	39-10-28	121-54-08	A-07.C0	2/71	141,185	128
CACHE C NR LOWER LK	A8 1350.00	38-55-29	122-33-53	A-04.D1	11/51	157	130
CACHE C A RUMSEY	A8 1135.00	38-53-24	122-14-14	A-02-C0	5/58	156	130
CACHE C NF NR LOWER LAKE	A8 2050.00	39-01-09	122-34-03	A-04.C0	12/51	158,190	128
CACHE SLU A VALLEJO PULP	B9 D 817.8 144.8	38-17-49	121-44-50	A-01.00	5/50	165,175,181,197	130
CALAVARES R NR JENNY LIND	B0 2590.00	38-05-22	120-51-53	B-03.C0	3/49	160,180,192	131
CALHOUN CUT TRIB HWY 113-CREED RD	B9 D 814.5 148.2	38-14-32	121-48-15	A-01.00	11/84	164	130
CARSON R FFA HWY 4	G8 3420.20	38-41-20	119-45-44	G-03.A0	9/58	171,182,194	132
CARSON R FFA WOODFORDS	G8 2300.00	38-46-10	119-50-00	G-04.B0	8/58	171	132
CHICO C BIG NR CHICO	A4 2111.00	39-46-34	121-45-05	A-13.B0	7/52	154	128
CLEAR C NR IGO	A3 6130.00	40-30-48	122-31-23	A-17.A0	4/58	154	126
CLEAR LK A LAKEPORT	A8 1 902.7 254.7 1	39-02-42	122-54-43	A-04.D2	4/51	156,190	128
CLEAR LAKE LO ARM CL-3	A8 1 857.9 240.6	38-57-52	122-40-40	A-04.D2	4/77	155,173,188,201	130
CLEAR LK 15-UP ARM CL-1	A8 1 903.8 251.9	39-03-48	122-51-54	A-04.D2	6/64	156,173,190,201	128
CLEAR LK 23 OAKS ARM CL-4	A8 1 900.7 241.7	39-00-42	122-41-42	A-04.D2	6/64	155,173,189,201	128
COLUMA BAS DR A HWY 20	A0 2976.00	39-11-45	122-03-34	A-07.B1	7/52	142	128
COLUMA BAS DR NR KNIGHTS LGD	A0 2947.10	38-48-45	121-46-25	A-07.B1	6/57	140,185	130
CONTRA COSTA CA A ROCK SLU	B9 D 758.6 138.4	37-58-35	121-38-24	B-01.00	10/75	163	130
CONTRA COSTA-EAST ID PUMPING PL-1	B9 D 755.1 137.4	37-55-05	121-37-22	B-01.00	5/82	162	130
COSUMNES R A DILLARD RD	B0 1175.01	38-29-28	121-09-37	B-03.A2	8/83	160,180,197	131
COSUMNES R A MICHIGAN BAR	B1 1150.00	38-30-01	121-02-40	B-04.A1	7/52	161,180,193	131
COSUMNES R MF NR SOMERSET	B1 3150.00	38-37-29	120-42-02	B-04.A4	10/67	161	131
COSUMNES R NF NR EL DORADO	B1 2100.00	38-35-20	120-50-38	B-04.A3	10/57	161	131
COSUMNES R SF A R PINES	B1 4110.01	38-32-48	120-44-10	B-04.A4	10/67	161	131
COTTONWOOD C A COTTONWOOD	A0 3520.50	40-22-35	122-16-53	A-17.B0	4/51	143	128
COTTONWOOD C MF NR GAS PT	A0 3581.00	40-23-06	122-31-45	A-17.B0	5/74	144	128
COTTONWOOD C NF NR IGO	A0 3545.00	40-26-30	122-32-58	A-17.B0	12/64	144	128
COTTONWOOD C SF NR COTTONWOOD	A0 3595.00	40-19-00	122-26-54	A-17.B0	9/58	144	128
COW C NR PALO CEDRO	A4 8111.00	40-31-56	122-14-15	A-17.A0	9/74	154	126
DEER C A HWY 99E	A0 4321.01	39-56-48	122-03-09	A-13.B0	5/71	144	128
DELTA MENDOTA CA A LINDEMAN RD	B9 C 749.0 133.6	37-48-58	121-33-36	B-01.00	9/83	161,174,180,197	130
DWR-BP 01 N-END, DIERSSEN-FARM RD	B9 R 818.4 129.3	38-18-22	121-29-18	A-01.00	10/78	167	131
DWR-BP 02 S-END, FARM RD	B9 R 817.0 128.3	38-17-03	121-28-17	A-01.00	7/78	167	131
DWR-BP 03 S-END, TWIN CITIES RD	B9 R 816.7 128.0	38-16-44	121-27-58	A-01.00	3/78	167	131
DWR-BP 04 N-END, TWIN CITIES RD	B9 R 816.6 127.9	38-16-38	121-27-55	A-01.00	7/78	167	131
DWR-BP 05 N-END, WALNUT GROVE RD	B9 R 813.5 127.2	38-13-29	121-27-13	B-01.00	10/79	167	131
DWR-BP 06 S-END, WOODBRIDGE RD	B9 R 809.6 125.9	38-09-36	121-25-52	B-01.00	4/78	167	131
DWR-BP 07 S-END, SARGENT RD, FARM	B9 R 807.7 124.7	38-07-42	121-24-40	B-01.00	10/77	167	131
DWR-BP 08 N-END, SARGENT RD, FARM	B9 R 807.5 124.7	38-07-32	121-24-42	B-01.00	1/79	166	131
DWR-BP 09 S-END, KINGDON RD, FARM	B9 R 806.5 124.4	38-06-27	121-24-23	B-01.00	10/76	166	131
DWR-BP 10 N-END, KINGDON RD, FARM	B9 R 806.4 124.4	38-06-24	121-24-23	B-01.00	1/77	166	131
DWR-BP 11 N-END, TREADWAY RD, FARM	B9 R 805.8 124.1	38-05-50	121-24-08	B-01.00	10/76	166	131

SAMPLING STATION INDEX (Continued)

Northeastern California

Station	Station Number	Location		Areal Code	Beginning of Record	Analyses on Page(s)	Map Page
		Lat.	Long.				
DWR-BP 12 MID-WAY NO OF WHITE SLOUGH	B9 R 805.4 123.9	38-05-26	121-24-55	B-01.00	10/79	166	131
DWR-BP 13 MID-WAY, SO OF WHITE SL	B9 R 804.8 123.6	38-04-47	121-23-37	B-01.00	10/78	166	131
EAGLE LK STA NO 1A	G3 L 033.4 048.4	40-33-23	120-48-22	G-08.C2	4/71	168,193	127
EAGLE LK STA NO 2A	G3 L 035.5 046.8	40-35-30	120-46-47	G-08.C2	4/71	168,193	127
EAGLE LK STA NO 4A	G3 L 040.4 046.0	40-40-21	120-45-57	G-08.C2	4/71	169,176,193	127
EAGLE LAKE STA 7A	G3 L 041.9 041.2	40-41-54	120-41-11	G-08.C2	4/71	169,176,193	127
EAGLE LK STA NO 9A	G3 L 038.6 044.1	40-38-37	120-44-04	G-08.C2	4/71	169,193	127
EAGLE LAKE STATION NO 10A	G3 L 036.9 044.7	40-36-54	120-44-39	G-08.C2	8/62	168,176,193	127
EAGLE LK STA NO 11	G3 L 035.2 045.1	40-35-11	120-45-05	G-08.C2	8/62	168,176,193	127
ELDER C A GERBER	A0 3320.00	40-03-04	122-09-55	A-13.B0	1/59	142	128
ELDER C NR PASKENTA	A3 3110.00	40-01-28	122-30-38	A-16.B1	10/58	154	128
FEATHER R A NICOLAUS	A0 5103.00	38-54-01	121-35-00	A-05.B2	3/49	145,179,185	130
FEATHER R MF NR PORTOLA	A5 5420.00	39-49-17	120-26-17	A-11.C2	5/71	155	129
GRINDSTONE C NR ELK C	A3 1302.00	39-40-38	122-31-50	A-14.B1	5/66	153,188	128
HIGH VALLEY C AB KELSEY C	A8 5610.00	38-52-07	122-47-36	A-04.D4	3/78	158,173,191	130
HONEY LK NR BUNTINGVILLE	G4 L 016.5 027.1	40-16-30	120-27-06	G-08.B0	3/73	169	129
HONKER CUT A ATHERTON RD BR	B9 D 803.6 127.5	38-03-34	121-27-30	A-01.00	6/59	163,181	131
IRON CANYON RES	A1 R 102.8 159.1	41-02-46	121-59-08	A-23.A3	5/76	149,187	126
KELSEY C A GLENBROOK	A8 5701.00	38-51-07	122-45-23	A-04.D4	3/78	159,174,192	130
KELSEY C AB HIGH VALLEY C	A8 5601.00	38-52-08	122-47-35	A-04.D4	3/78	158,173,190	130
KELSEY C NR KELSEYVILLE	A8 1500.00	38-55-42	122-50-36	A-04.D4	3/80	157,173,190	130
LINDSAY SLU A HASTINGS CUT	B9 D 815.8 146.2	38-15-47	121-46-12	A-01.00	11/80	165,175,181,197	130
LITTLE CONNECTION EMPIRE ATHERTON	B9 D 803.6 130.0	38-03-36	121-29-58	B-01.00	2/85	164,181,197	131
LK BRITTON A FY KING	A1 L 101.3 139.9	41-01-18	121-39-54	A-23.B1	5/73	149,186	126
LK SISKIYOU NR MT SHASTA	A2 L 116.8 219.7	41-16-46	122-19-43	A-21.B2	7/73	150,187	126
LONG VLY C AB DOYLE	G6 1200.00	39-55-50	120-01-10	G-08.A0	7/54	170	129
LONG VLY CR NR HALLSLEIGH JCT	G6 1705.00	39-46-55	120-04-14	G-08.A0	3/71	170	129
MALLARD SLU AT PUMPING PLANT	B8 X 802.2 155.6	38-02-09	121-55-37	E-07.C1	9/83	161,174	130
MC CLOUD RES A DM	A2 R 107.9 204.2	41-07-53	122-04-12	A-22.A3	8/73	150,188	126
MC CLOUD R AB SHASTA LK	A2 2150.00	40-57-30	122-13-09	A-22.A1	4/51	152,188	126
MERRILL C A EAGLE LK NR SUSANVILLE	G3 2510.00	40-32-54	120-43-26	G-08.C1	4/72	169,176,194	127
MERRILL C BL LITTLE MERRILL FLAT	G3 2515.00	40-32-04	120-49-26	G-08.C1	6/75	169,176,194	127
MIDDLE R A BORDEN HWY	B9 D 753.5 129.3	37-53-28	121-29-20	B-01.00	11/61	162,174,180,197	131
MIDDLE RIVER A MOKELMNE AQUEDUCT	B9 D 756.2 131.7	37-56-13	121-31-44	B-01.00	4/77	162	130
MILL C NR MO NR LOS MOLINOS	A0 4420.50	40-02-35	122-05-57	A-13.B0	9/52	144,185	128
MINER SLU A RYDE ISL SCH HWY	B9 D 814.6 139.5	38-14-36	121-39-32	A-01.00	8/60	164,175,181	130
MOKELMNE R A LOWER SACTO RD	B0 2105.20	38-09-27	121-17-49	B-03.B0	8/83	160,180,197	131
MOKELMNE R NORTH BL SNODGRASS SL	B9 D 813.4 130.3	38-13-23	121-30-20	B-01.00	6/82	164	131
MOKELMNE R NR MOKELMNE HILL	B2 1375.00	38-18-46	120-43-09	B-04.C0	10/52	161	131
OLD R A TRACY RD BR	B9 D 748.3 126.9	37-48-17	121-26-55	B-01.00	2/68	161	131
OLD R NR ROCK SLU AB RANCHO DEL RIO	B9 D 758.1 134.3	37-58-10	121-34-15	B-01.00	5/72	163	130
PAPOOSE C NR SUSANVILLE	G3 2505.00	40-33-15	120-45-31	G-08.D0	10/72	169,176,194	127
PAYNES C NR RED BLUFF	A4 6050.01	40-18-54	122-04-12	A-17.A0	10/58	154	128
PINE C A EAGLE LK NR SUSANVILLE	G3 1140.00	40-39-54	120-47-25	G-08.C1	1/74	169,176,194	127
PIPER SLU A BETHEL TRACT	B9 D 802.0 137.2	38-02-03	121-37-14	B-01.00	5/77	163	130
PIT R NR CANBY	A1 1680.00	41-24-23	120-55-38	A-23.D4	4/51	149	127
PIT R NR MONTGOMERY C	A1 1020.00	40-50-54	121-59-24	A-20.B0	4/51	149,180,187	126
PIT R SF NR LIKELY	A1 4400.00	41-13-51	120-26-10	A-23.E2	8/58	149,187	127
PUTAH C NR WINTERS	A9 1250.00	38-30-55	122-04-50	A-02.B0	12/51	160	130
R-D 70 DR TO SACRAMENTO R	A0 2965.00	39-04-08	121-51-43	A-07.A0	8/59	141,185	128
R-D 108 DR TO SACRAMENTO R	A0 2933.00	38-51-48	121-47-30	A-07.A0	8/59	139	130
R-D 787 DRAINAGE TO COLUSA BAS DRAIN	A0 2950.00	38-48-06	121-43-30	A-07.A0	6/57	140	130
R-D 787 DRAINAGE TO SACRAMENTO R	A0 2955.00	38-50-48	121-43-48	A-07.A0	5/60	141,185	130
R-D 1500 DR SLU TO SAC SLU NR KARNAK	A0 2926.00	38-47-06	121-39-18	A-07.A0	2/52	138	130
RED BANK C NR RED BLUFF	A0 3460.00	40-05-24	122-24-45	A-13.B0	1/59	143	128
ROCK SL A OLD RIVER	B9 D 758.4 134.8	37-58-22	121-34-50	B-01.00	9/83	163,174,180,197	130
RUBICON R A ELLICOTT RD	A7 5250.10	38-57-37	120-28-54	A-06.C3	10/69	155,180,188	131
SACRAMENTO R A BEND BR	A0 2785.00	40-15-50	122-13-19	A-17.A0	4/55	138,100,185	128
SACRAMENTO R A BUTTE CITY	A0 2500.00	39-27-28	121-59-35	A-07.D0	4/55	137	128

SAMPLING STATION INDEX (Continued)

Northeastern California

Station	Station Number	Location		Areal Code	Beginning of Record	Analyses on Page(s)	Map Page
		Lat.	Long.				
SACRAMENTO R A COLUSA	A0 2420.00	39-12-52	121-59-57	A-07.A0	7/55	136	128
SACRAMENTO R A DELTA	A2 1300.00	40-56-21	122-24-58	A-20.B0	4/51	151,188	126
SACRAMENTO R A FREEMONT WEIR WEND	A0 2170.00	38-45-34	121-39-59	A-02.B0	6/65	135,185	130
SACRAMENTO R A GREENS LDG	B9 D 820.7 132.7	38-20-45	121-32-42	A-01.00	7/62	166,175,182,197	130
SACRAMENTO R A HAMILTON CITY	A0 2630.00	39-45-06	121-59-40	A-13.B0	4/51	137,185	128
SACRAMENTO R A KESWICK	A2 1010.00	40-36-04	122-26-35	A-19.C0	4/51	151	126
SACRAMENTO R A WALNUT GROVE	B9 D 814.4 131.0	38-14-22	121-30-57	A-01.00	12/60	164	130
SACRAMENTO R AB COLUSA BAS DR	A0 2230.02	38-48-30	121-43-20	A-07.A0	7/60	136,185	130
SACRAMENTO R BL KNIGHTS LANDING	A0 2195.01	38-45-38	121-40-40	A-07.C0	7/60	135	130
SACRAMENTO R BL RED BLUFF DIV DM	A0 2755.00	40-08-43	127-08-58	A-13.B0	12/77	137	128
SAN JOAQUIN R A BLIND POINT	B9 U 801.9 143.2	38-01-57	121-43-09	B-01.00	9/63	163	130
SAN JOAQUIN R A BRANDT BR	B9 D 751.9 119.3	37-51-53	121-19-19	B-01.00	3/57	162	131
SAN JOAQUIN R NR VERNALIS	B0 7020.00	37-40-34	121-15-51	B-01.00	4/51	160,174,180,197	131
SAWTELLE DRAIN AT CLARK ROAD	A0 X 821.5 151.5	38-21-31	121-51-32	A-02.A0	7/84	135	130
SHASTA LK A DAM	A2 L 043.2 225.0	40-43-12	122-25-00	A-20.A0	8/73	149,187	126
SHASTA LK A LITTLE SQUAW C INLET	A2 L 044.3 227.3	40-44-17	122-27-18	A-20.A0	5/83	149,187	126
SHASTA LK LITTLE BACKBONE C INLET	A2 L 045.4 225.5	40-45-25	122-25-30	A-20.A0	5/83	150,187	126
SHASTA LK MC CLOUD R ARM	A2 L 048.4 217.6	40-48-22	122-17-33	A-24.A4	10/78	150,187	126
SHASTA LK PIT R AB JONES VALLEY	A2 L 044.9 212.1	40-44-52	122-12-04	A-20.A0	5/83	150,187	126
SHASTA LK SACRAMENTO R ARM	A2 L 048.5 222.8	40-48-30	122-22-49	A-24.A0	10/78	150,187	126
SHASTA LK SQUAW C BL ZINC C	A2 L 046.4 212.9	40-46-26	122-12-54	A-20.A0	5/83	150,187	126
SQUAW C AB SHASTA LK	A2 4100.00	40-51-24	122-07-08	A-22.B0	7/55	152,188	126
SQUAW C LA SHASTA LK	A2 0130.00	40-44-25	122-28-03	A-20.B0	6/52	150,173	126
STEAMBOAT SLU BL SUTTER SLU	B9 D 815.0 136.0	38-14-57	121-36-02	A-01.00	7/82	164	130
STONY C AB GRINDSTONE C	A3 1253.00	39-40-13	122-31-26	A-14.B1	5/79	153,173,188	128
STONY C BL BLACK BUTTE DM NR ORLAND	A3 1110.00	39-49-07	122-19-26	A-13.A0	1/58	152,173,188	128
SUSAN R A LASSEN ST BR	G4 1600.01	40-24-50	120-39-52	G-08.B0	4/51	170	129
SUSAN R NR LITCHFIELD	G4 1590.01	40-22-40	120-23-40	G-08.B0	11/68	169	129
SUTTER BP A R-D 1500 PP A KARNAK	A0 2927.00	38-47-06	121-39-12	A-07.A0	6/51	139,185	130
SUTTER BP STATE PP NO 1 NR NICOLAUS	A0 5910.00	38-56-00	121-38-06	A-07.C0	3/49	145,186	130
SUTTER BP STATE PP NO 2 NR TISDALE	A0 5920.00	39-01-36	121-43-30	A-07.C0	1/59	146,186	128
SUTTER BP STATE PP NO 3 NR YUBA CITY	A0 5925.00	39-07-14	121-46-41	A-07.C0	2/75	146	128
TEHAMA COLUSA CANAL NR RED BLUFF	A0 2759.00	40-08-45	122-11-47	A-13.B0	10/76	138,185	128
THOMES C A PASKENTA	A0 3500.00	39-53-16	122-31-41	A-13.B0	10/58	143,185	128
THOMES C A RICHFIELD	A0 3220.01	39-58-45	122-10-35	A-13.B0	1/59	142	128
TRUCKEE R A TAOHE CITY	G7 1665.00	39-09-59	120-08-37	G-06.B0	5/71	170,182,194	131
ULATIS CR AT BROWN RD	X0 X 818.4 147.6	38-18-25	121-47-35	A-02.A0	6/84	135,173	130
ULATIS CR AT HAWKINS RD	X0 X 821.5 150.8	38-21-31	121-50-50	A-02.A0	6/84	135,173	130
WADSWORTH CA NR SUTTER LO STA	A0 5927.00	39-07-43	121-45-12	A-07.C0	9/75	147,186	128
WALKER R E NR BRIDGEPORT	G9 3200.00	38-19-40	119-12-49	G-01.A0	8/58	171,182,194	132
WALKER R W BL LITTLE WALKER R	G9 2460.00	38-22-48	119-27-00	G-02.D0	8/58	171	132
WHISKYTOWN RES A DAM	A3 R 036.1 232.4	40-36-04	122-32-22	A-19.B3	5/63	152,188	126
WILLOW CA RD A-27 NR LICHFIELD	G4 2901.00	40-24-00	120-27-03	G-08.B0	5/65	170	129
YUBA R NR MARYSVILLE	A0 6150.00	39-10-35	121-31-25	A-08.C0	2/70	147,179,186	128
YUBA R (SOUTH) NR CISCO	A6 4700.00	39-19-12	120-33-38	A-10.C4	10/67	155	129

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LEGEND



SURFACE WATER QUALITY
MEASUREMENT STATIONS

A2

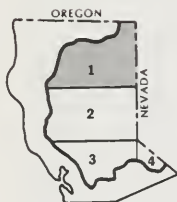
MAJOR BASIN and
TRIBUTARY AREA



MAJOR BASIN BOUNDARY



BOUNDARY of TRIBUTARY
AREA



KEY TO SHEETS

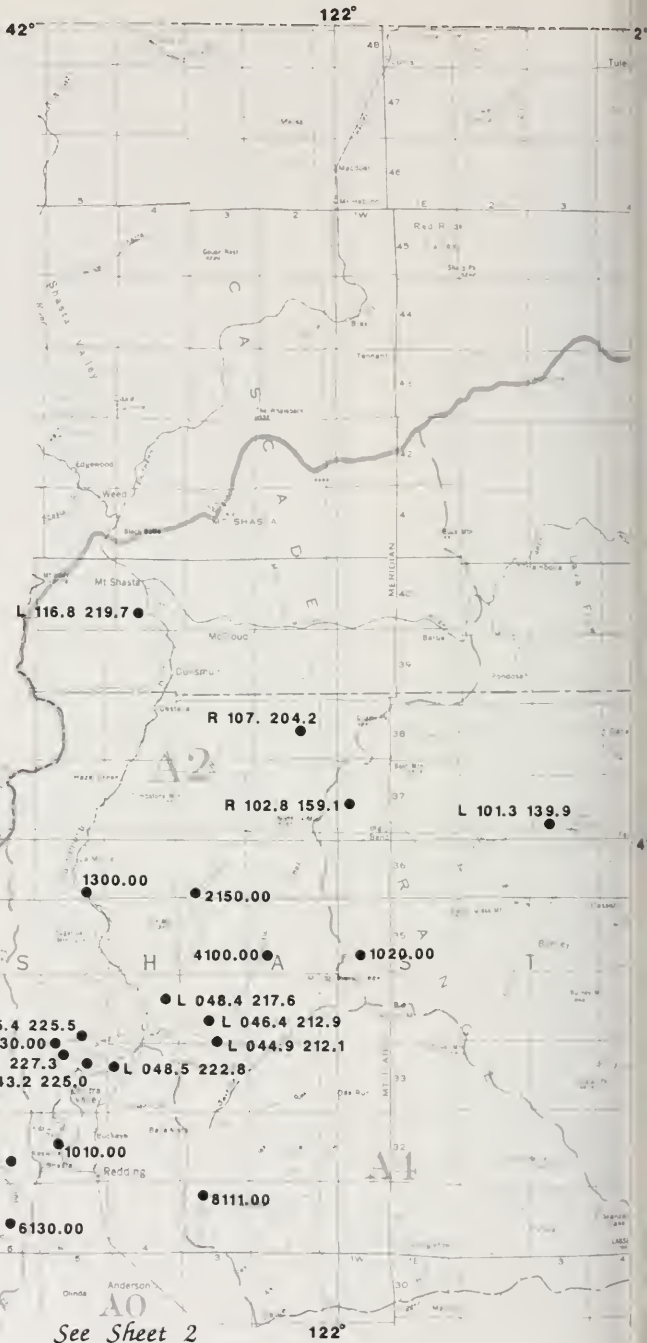
8 0 8 16

Scale in Miles

123°



41°



See Sheet 2

122°

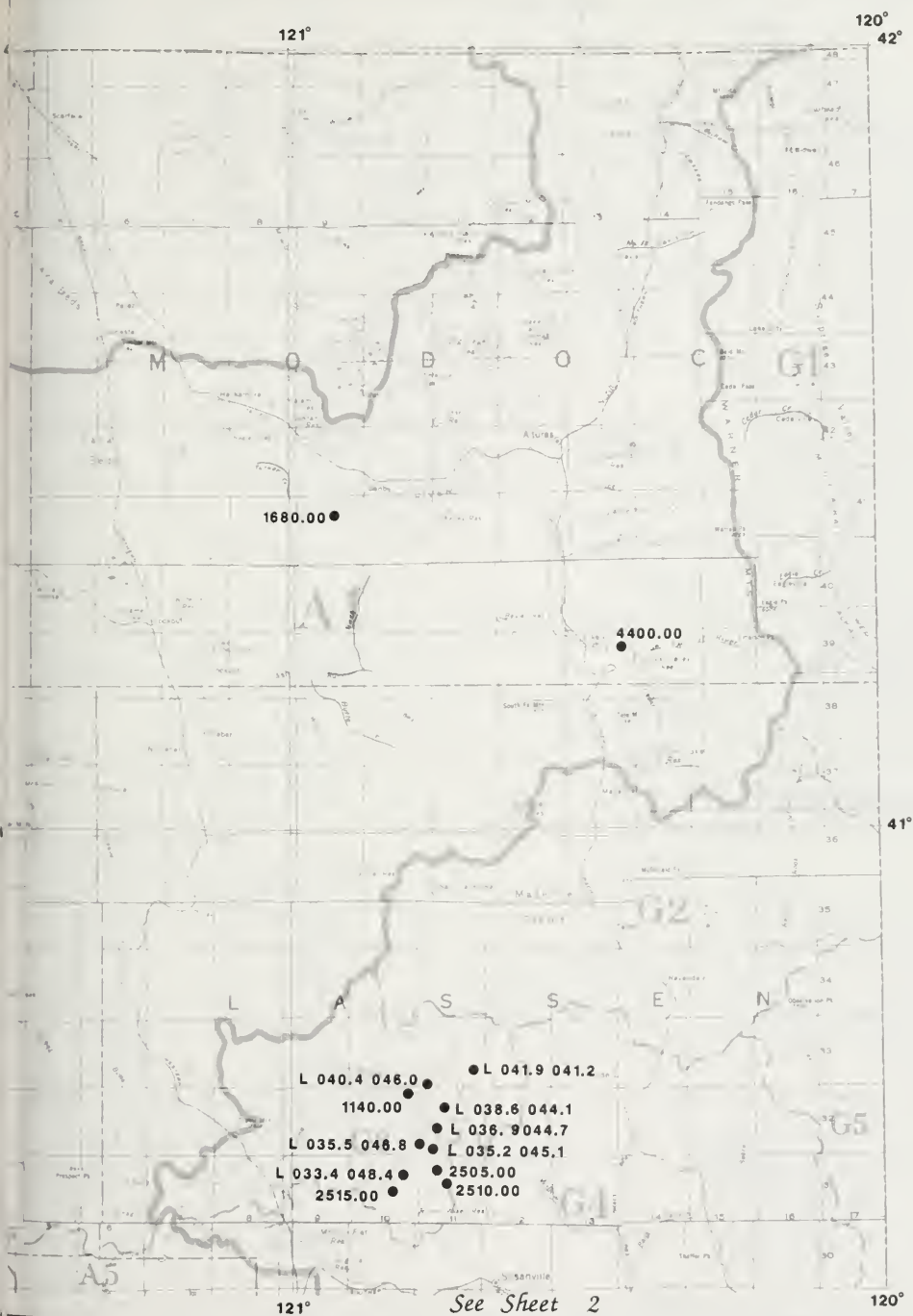
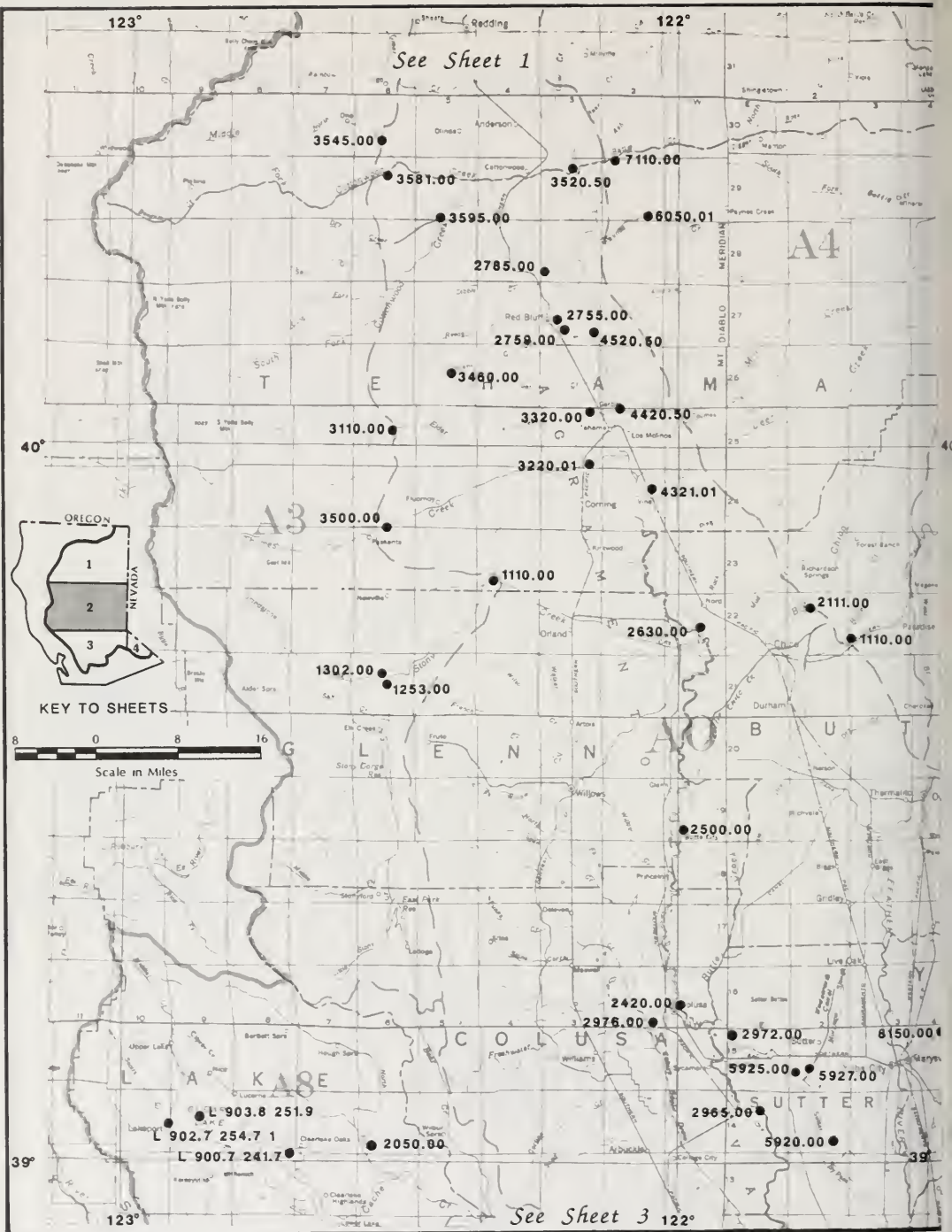


Figure 5. LOCATION OF SURFACE WATER QUALITY STATIONS



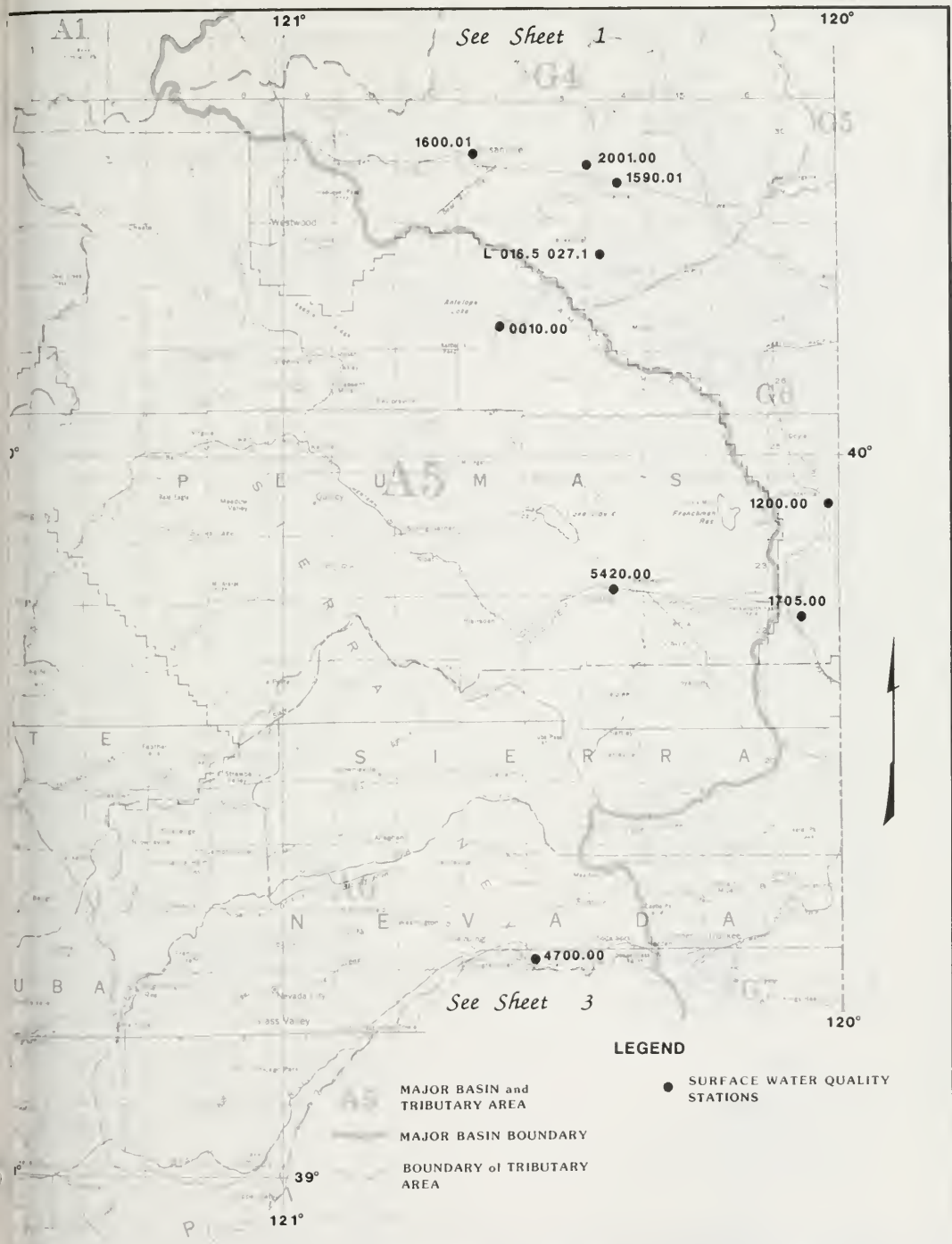
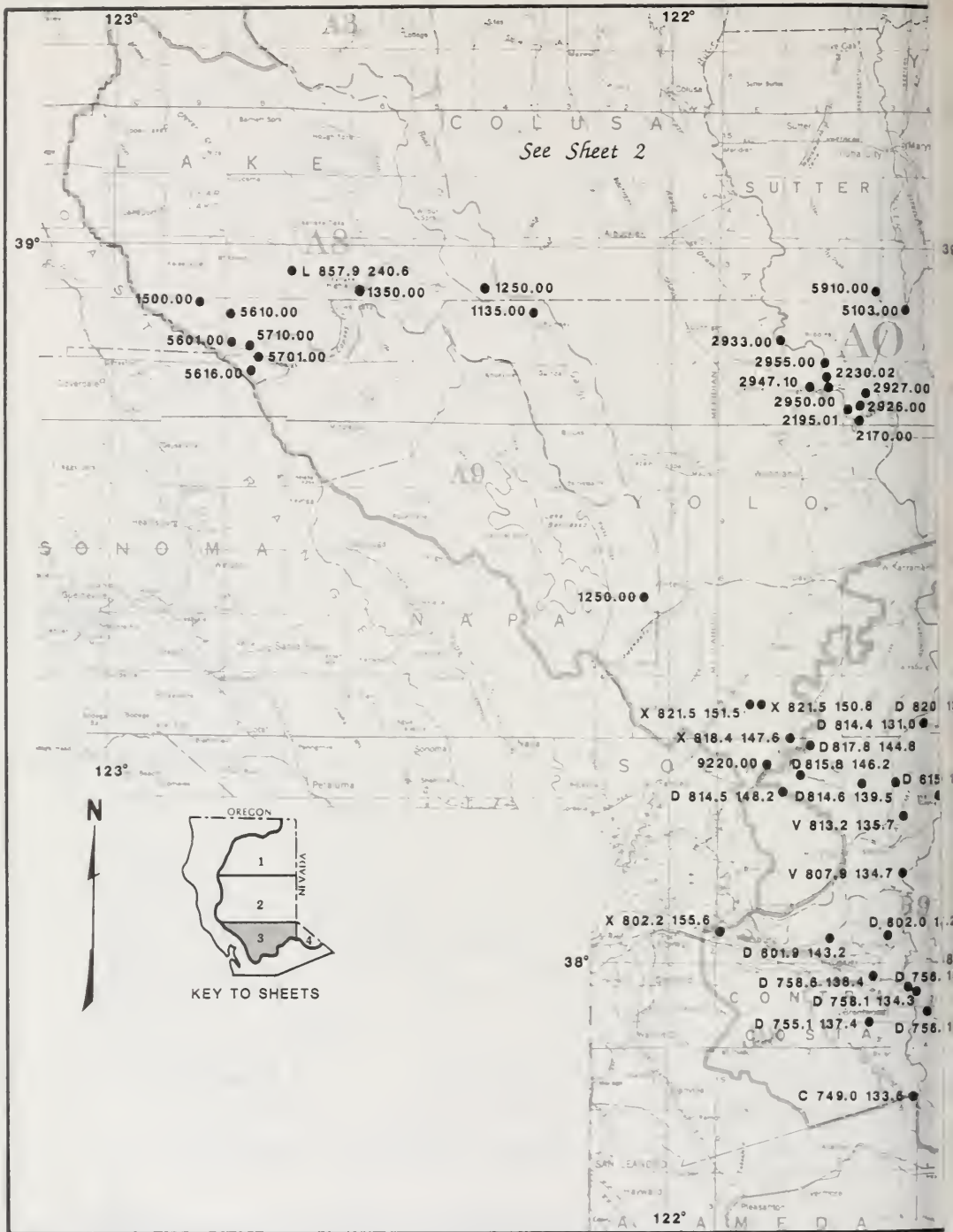


Figure 5. LOCATION OF SURFACE WATER QUALITY STATIONS



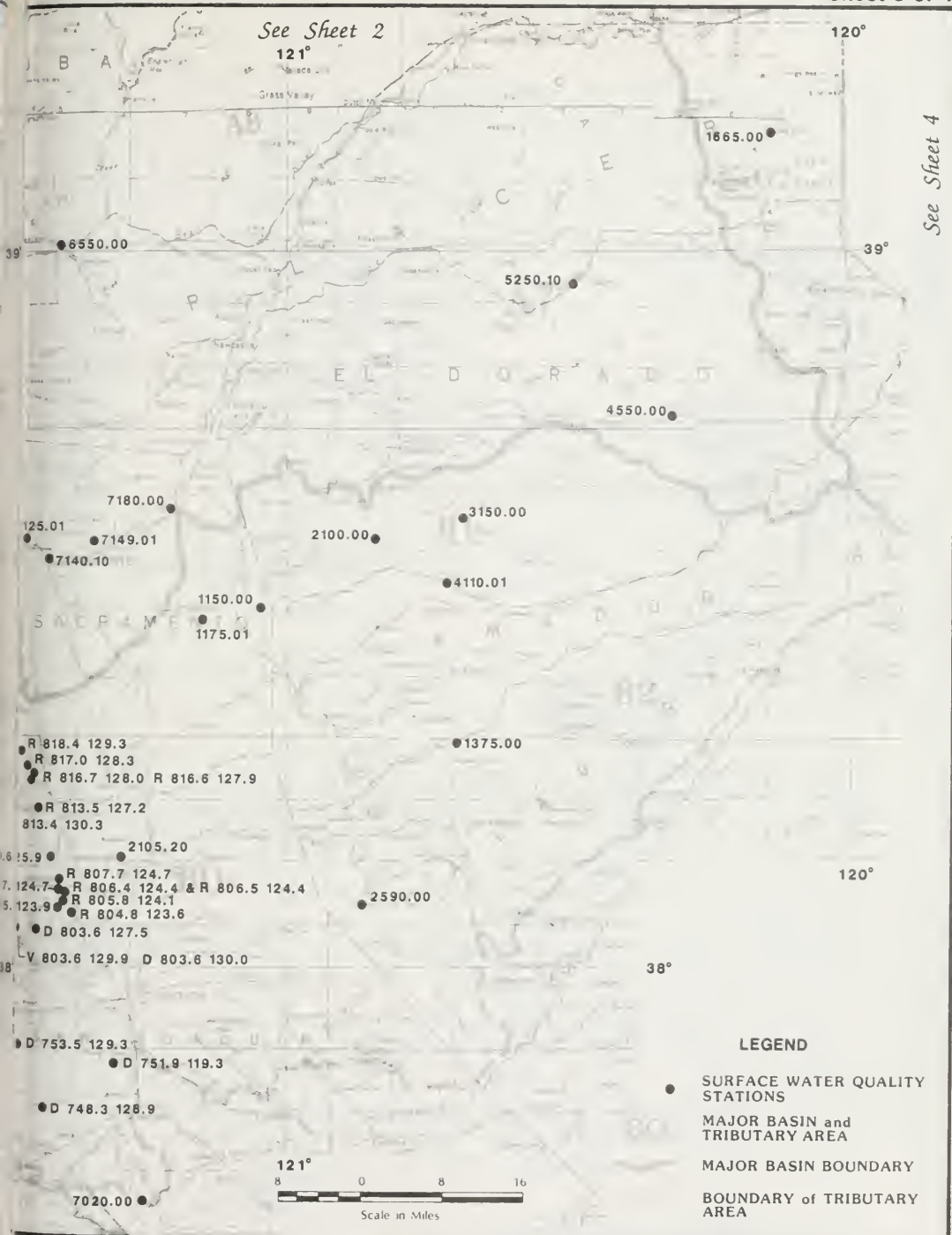


Figure 5. LOCATION OF SURFACE WATER QUALITY STATIONS

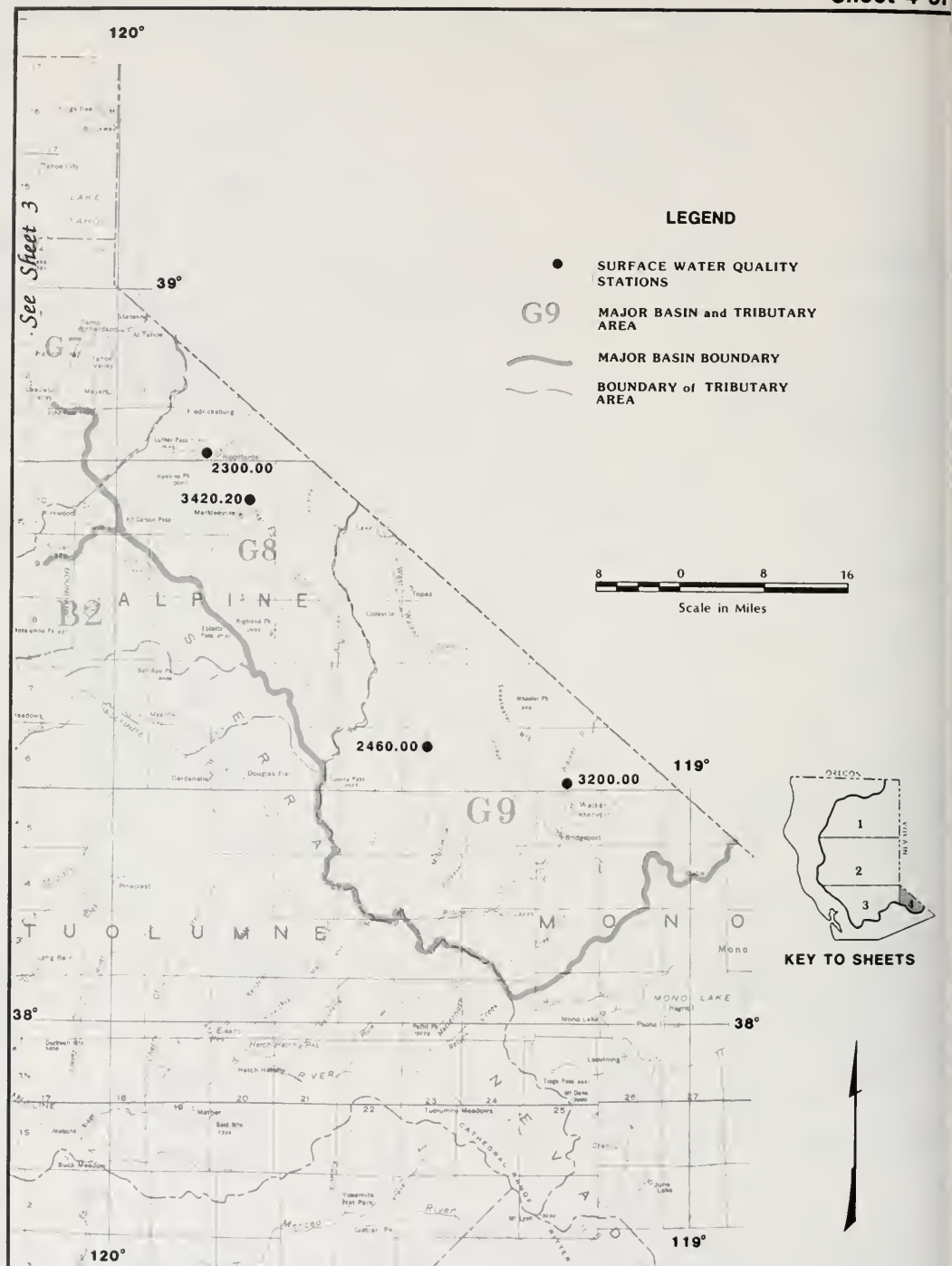


Figure 5. LOCATION OF SURFACE WATER QUALITY STATIONS

TABLE C-1
MINERAL ANALYSES OF SURFACE WATER

Lab and Sampler Agency Code

2163 - California Department of Water Resources for the State Water Resources Control Board
5050 - California Department of Water Resources

Abbreviations and Constituents

TIME	- Pacific Standard Time on a 24-hour clock
G. H.	- Instantaneous gage height in feet above an established datum
Q	- Instantaneous discharge in cubic feet per second (E = Estimated)
DO	- Dissolved oxygen content in milligrams per liter
SAT	- Percent of normal dissolved oxygen saturation
TEMP	- Water temperature at time of sampling in degrees Fahrenheit (F) or Celcius (C)
Field	- Determined in the field
Laboratory	- Determined in the laboratory
pH	- Measure of acidity or alkalinity of water
EC	- Electrical conductance in microsiemens at 25°C

Constituents:

B	-	Boron	K	-	Potassium
CA	-	Calcium	MG	-	Magnesium
CACO3	-	Calcium Carbonate	NA	-	Sodium
CL	-	Chloride	NO3	-	Nitrate
F	-	Fluoride	SIO2	-	Silica
			SO4	-	Sulfate

Boron, Fluoride, and Silica are reported in milligrams per liter. The other minerals are reported in each of three units; milligrams per liter, milliequivalents per liter, and percent reactance value; accordingly, each observation can use three lines of tabulation.

MILLIEQUIVALENTS PER LITER is the concentration in Mg/l divided by the equivalent weight of the ion.

PERCENT REACTANCE VALUE is determined by dividing the sum of the cations or anions in milliequivalents per liter into each constituent in milliequivalents per liter, arriving at a percentage.

TDS	- Gravimetric determination of total dissolved solids at 180°C
SUM	- Total dissolved solids by summation of analyzed constituents minus 40 percent of the carbonate weight
TH	- Total Hardness
NCH	- Noncarbonate hardness - any excess of total hardness over total alkalinity
TURB	- Jackson turbidity units measured with Hellige Turbidimeter (E) or a Hach nephelometer (A) with (F) for field determinations
SAR	- Sodium adsorption ratio
ASAR	- Adjusted sodium adsorption ratio

REM - Remarks; code letters are:

- T - Total dissolved solids and the calculated sum of constituents are not within 20 percent of each other.
- E - Total dissolved solids (TDS) value is not within the range of 0.35 to 0.70 of the electrical conductivity
- S - The anion sum and cation sum for a complete analysis is not within the prescribed tolerance of ± 5 percent.
- X - Indicates the field electrical conductivity and the laboratory electrical conductivity are not within 20 percent of each other.
- C - The electrical conductivity divided by the EC-EPM factor (or, if absent, 100) is not within 20 percent of the average of the cation sum and anion sum for complete analysis.

TABLE C-1
MINERAL ANALYSES OF SURFACE WATERS

DATE TIME	SAMPLES LAB	G.W. 0	NO SAT	TEMP F	FIELD		MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				DEM	
					LABORATORY PH	EC	CA	MG	NA	K	PERCENT REACTANCE VALUE CACC	PERCENT REACTANCE VALUE			PERCENT REACTANCE VALUE					
												SO4	CL	NO3	SO4	CL	NO3			
AN		0010.00		ANTELOPE LK NR DM				A11F4												
04/25/85	5050	2.74	9.0	50.0F	7.2	78	8.0	4.0	1.3	34	2.0	1.0	.0	.0	--	64	28	0.3	E	
0930	5050	104	10.0C	7.7	78	40	16	.17	.03	.76	.04	.03	.00	13.0	54	0	0.2			
		1				53	21	22	.4	.92	5	4	0							
04/25/85	5050	2.74	8.7	45.0F	7.0	78	7.0	2.0	4.0	1.2	37	2.0	1.0	.0	.0	--	54	28	0.3	F
0945	5050	20	86	7.2C	7.6	75	35	.16	.17	.03	.74	.04	.03	.01	14.0	54	0	0.2		
						49	23	24	4	.90	5	4	1							
AO Y 81A.4		147.6		ULATIS CR AT BROWN PN				A02AD												
11/13/84	5050	8.2	50.0F	7.3	320	20	13	23	3.4	.60	32	22	17.0	.1	--	700	104	1.1		
1220	5050	81	15.0C	8.5	322	1,00	1.07	1.09	.09	1.34	.67	.62	.27	.20A	--	174	35	1.7		
						31	33	34	3	.47	23	21	.9						S	
11/28/84	5050	9.4	52.7F	7.7	240	14	9.0	16	3.0	.55	25	14	7.5	.2	--	157	72	0.0		
1200	5050	86	11.5C	8.0	232	.70	.74	.78	.10	1.10	.62	.39	.12	.23A	7.0	132	17	1.0	S	
						30	32	34	4	.52	24	18	.8							
12/18/84	5050	12.5	42.8F	8.2	1010	66	43	95	--	--	--	.90	--	5A	--	--	342	0.0		
1115	5050	100	8.0C		1060	3.29	3.54	.413	--	--	--	2.79	--		--	--			S	
						30	32	38												
03/11/85	5050	9.6	59.1F	8.0	400	33	16	45	3.2	139	57	28	7.7	.1	--	310	140	1.6		
1200	5050	94	14.5C	7.9	501	1.65	1.32	1.92	.06	2.78	1.19	.79	.12	200A	--	273	10	2.0		
						33	26	30	2	.57	24	16	2							
AO Y #21.5		150.8		ULATIS CR AT HAWKINS RD				A02AG												
12/18/84	5050	4.6	8.0	890	68	43	42	--	--	--	--	.83	--	--	--	--	347	0.0		
0940	5050	7.0C		914	3.39	3.32	2.2C	--	--	--	--	1.78	--	5A	--	--			S	
						35	37	28												
AO Y #21.5		151.5		SAMTELE ORAIN AT CLARK PN				A02AD												
12/06/84	5050	11.0	54.5F	8.3	950	59	40	87	4.1	240	168	89	27.0	.2	--	613	312	2.1		
1220	5050	103	12.5C	8.2	997	2.94	3.29	3.78	.10	4.80	2.25	2.51	.44	.24	31.0	589	72	4.0		
						29	33	37	1	.48	23	25	.4							
AO		2170.00		SACRAMENTO R & FREEMONT WEIR W END				A0280												
10/25/84	5050	9.6	58	F	7.6	176	13	7.0	12	--	.66	--	.6.0	--	--	--	62	0.7		
1330	5050	94	14	C	7.3	179	.65	.58	.52	--	1.32	--	.17	--	3A	--	--	0.8		
						37	33	30												
11/28/84	5050	10.5	49	F	7.3	155	11	6.0	10	1.4	.52	9.0	.6.0	1.3	.1	--	107	57	0.6	E
1230	5050	92	9	F	7.6	149	.39	.49	.44	.84	1.04	.19	.17	.02	--	76	0	0.6	F	
						36	32	29	3	.73	13	12	.1							
12/20/84	5050	2.4	10.5	4	F	7.3	13	7.0	9.0	--	.60	--	5.6	--	--	--	90	62	0.5	
1400	5050	90	9	C	7.2	161	.40	.36	.24	--	1.20	--	.14	--	7A	--	--	2	0.6	
01/03/85	5050	19.02	10.7	46	F	7.4	224	15	9.0	1.4	7.4	21	.6.0	.2	.0	--	137	74	1.0	
1300	5050	90	8	C	7.2	227	.75	.74	.7C	.04	1.48	.44	.23	.00	--	115	1	0.6		
						34	33	31	2	.69	20	11	.0							
02/19/85	5050	10.2	45	F	7.8	212	18	10	15	1.6	.76	17	.6.0	.3	.0	--	138	86	0.7	
1230	5050	96	13	C	7.9	220	.90	.82	.67	.05	1.52	.35	.23	.00	--	114	10	1.0		
						37	34	27	2	.72	17	11	.0						S	
03/28/85	5050	16.85	10.2	52	F	7.8	216	17	10	1.6	.83	--	.6.0	--	--	--	131	84	1.0	
1330	5050	93	11	C	7.4	220	.85	.82	.7C	--	1.66	--	.23	--	--	--	114	1	0.8	
						36	35	30												
04/26/85	5050	10.4	63.7F	7.8	177	17	9.0	14	--	75	--	.6.0	--	--	--	--	124	80	0.7	
1345	5050	108	17.6C	7.5	190	.85	.74	.61	--	1.50	--	.17	--	10A	--	--	5	0.9		
						39	34	28												
05/30/85	5050	10.3	64.6F	7.8	249	19	11	23	--	8.74	--	.6.0	--	--	--	--	144	92	1.4	
1055	5050	111	10.2C	7.0	238	.95	.90	1.0C	--	1.7	--	.23	--	18A	--	--	6	1.0		
						33	32	35												
06/26/85	5050	8.4	73.0F	7.8	212	14	8.0	16	--	76	--	.6.0	--	--	--	--	136	68	0.8	
1250	5050	97	22.8C	7.8	196	.70	.66	.7C	--	1.52	--	.17	--	14A	--	--	0	1.1		
						34	32	34												
07/30/85	5050	7.8	71.2F	7.9	218	14	8.0	15	--	--	--	.6.0	--	--	--	--	128	68	0.0	
1200	5050	88	21.9C		199	.70	.66	.65	--	--	--	.17	--	8A	--	--				
						35	33	32												
08/15/85	5050	15.75	8.5	69.3F	8.0	199	13	8.0	14	--	79	--	.6.0	--	--	--	171	66	0.7	
0941	5050	72	20.7C	8.4	198	.85	.86	.61	--	1.58	--	.17	--	13A	--	--	0	0.9		
						34	34	32												
09/19/85	5050	14.95	8.0	65.5F	7.9	245	16	10	1.7	1.7	.92	17	.9.0	.4	.1	--	152	81	0.9	
0730	5050	85	18.6C	8.4	245	.80	.82	.78	.04	1.84	.35	.79	.01	--	--	--	127	0	1.2	
						33	34	32	2	.75	--	14	10	.0						
AO		2195.01		SACRAMENTO R BL KNOTHS LANDING				A07C0												
10/30/84	5050	10.1	57.2F	7.6	162	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1200	5050	98	14.0C												56F	--	--			
02/25/85	5050	10.9	55.4F	7.7	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1305	5050	103	13.0C												16F	--	--			
04/29/84	5050	9.3	65.3F	7.9	243	20	12	26	--	.88	--	.6.0	--	--	.1	--	--	100	1.1	
1315	5050	90	18.5C	7.7	250	1.00	.99	1.13	--	1.76	--	.79	--	21A	--	--	12	1.7		

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	ELEV D	NO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS OF LITER				MILLIGRAMS PER LITER MILLIEQUIVALENTS OF LITER				REM							
							CA	MG	NA	K	CO ₃	SO ₄	CL	NO ₃	TPH	SEM	TH	NCM		SAR	ASAP					
AC 2105.01 SACRAMENTO R RL KIRKMTS LABORATORY																										
AC700 CONTINUED																										
07/30/85	5050			71.6F	7.8	101	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1140	5050			22.0C																						
08/26/85	5040			71.6F	7.8	254	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1740	5050			23.0C																						
AC 2210.02 SACRAMENTO R AN COLUSA BASIN CP																										
AL740																										
10/30/84	5050			37.2F	7.7	147	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1645	5050			14.0C																						
11/29/84	5050			50.0F	7.4	148	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1110	5040			10.0C																						
02/25/85	5050			55.4F	7.8	175	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1225	5050			13.0C																						
03/24/85	5050			52.7F	7.9	190	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1140	5050			11.5C																						
04/20/85	5050			62.6F	7.8	185	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1004	5056			17.0C																						
05/12/85	5050			66.2F	7.8	144	14	8.0	12	--	73	--	5.0	--	1.1	--	--	--	--	--	--	--	--	--	--	
1124	5056			10.0C	7.8	187	.70	.66	.52	--	1.46	--	.17	--												
06/26/85	5050			70.7F	7.9	156	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1105	5056			21.1C																						
07/30/85	5040			69.6F	7.8	149	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1025	5050			21.0C																						
08/24/85	5040			71.5F	7.7	101	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1240	5050			22.0C																						
09/26/85	5050			69.8F	8.1	181	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1100	5056			21.0C																						
AC 2420.00 SACRAMENTO R A COLUSA																										
AC740																										
10/30/84	5050			55.4F	7.9	138	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
0900	5050			13.0C																						
11/29/84	5040			49.1F	7.8	114	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
0910	5050			9.5C																						
12/27/84	5050			48.2F	7.5	165	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1650	5040			9.0C																						
01/27/85	5050			48.2F	7.8	163	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1205	5056			9.0C																						
02/15/85	5040			48.5F	7.8	182	13	7.0	9.6	--	85	--	4.0	--	.0	--	--	--	--	--	--	--	--	--	--	
0943	5050			12.5C	4.0	171	.65	.54	.35	--	1.30	--	.11	--												
03/24/85	5040			50.0F	7.8	157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
0940	5040			10.0C																						
04/20/85	5040			62.6F	8.2	175	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
0815	5056			17.0C																						
05/12/85	5040			60.8F	7.9	151	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
0910	5050			16.0C																						
06/26/85	5056			45.3F	7.9	144	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
0904	5050			14.1C																						
07/30/85	5050			66.2F	8.0	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
0930	5040			14.0C																						
08/26/84	5050			71.5F	7.9	149	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
0453	5050			22.0C																						
09/26/85	5050			71.8F	7.7	163	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
0943	5050			22.0C																						

TABLE C-1 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	GAL G	ON SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				REF	
							Ca	Mg	Na	K	CaCO ₃	SO ₄	Cl	NO ₃	TDS	TH	SD	AS44		
40 2500.00 SACRAMENTO R & 4TH CITY AC700																				
11/20/84 0020	5050 5050	31500	11.0 6	40.1F 9.5C	7.3	114	--	--	--	--	--	--	--	--	--	1364F	--	--	--	--
01/27/85 1105	5050 5050	8620	12.0 103	47.3F 8.4C	7.4	174	--	--	--	--	--	--	--	--	--	14F	--	--	--	--
03/28/85 0840	5050 5050	8280	11.0 95	46.2F 9.0C	7.3	164	--	--	--	--	--	--	--	--	--	44F	--	--	--	--
05/29/85 0630	5050 5050	6340	10.5 104	59.0F 15.0C	7.8	150	12 41	640 49	9.6 33	9.6 26	63 1.2F	--	4.0 11	--	41	--	54 0	0.4 0.6	--	5
07/30/85 0730	5050 5050	7580	9.5 100	64.4F 16.0C	7.6	131	--	--	--	--	--	--	--	--	--	34F	--	--	--	--
09/26/85 0815	5050 5050	4456	9.3 101	67.1F 19.5C	7.4	149	--	--	--	--	--	--	--	--	--	44F	--	--	--	--
40 2630.00 SACRAMENTO R & HAMILTON CITY A1380																				
11/20/84 0744	5050 5050	3370 23700	11.5 100	46.2F 9.0C	7.1	116	--	--	--	--	--	--	--	--	--	444F	--	--	--	--
01/27/85 1030	5050 5050	2927 4010	11.6 99	47.3F 9.5C	7.4	140	--	--	--	--	--	--	--	--	--	24F	--	--	--	--
03/28/85 0820	5050 5050	2942 7520	10.3 89	46.2F 9.0C	7.2	141	--	--	--	--	--	--	--	--	--	54F	--	--	--	--
05/29/85 0744	5050 5050	2931 4550	10.1 100	59.0F 15.0C	7.6 7.7	144 151	14 470	7.0 58	10 34	9.6 44	64 1.2F	--	4.0 11	--	41	--	54 0	0.4 0.6	--	5
07/30/85 0700	5050 5050	2966	9.8 101	62.4F 17.0C	7.6	131	--	--	--	--	--	--	--	--	--	24F	--	--	--	--
09/26/85 0740	5050 5050	2855	9.1 98	66.2F 19.0C	7.4	149	--	--	--	--	--	--	--	--	--	44F	--	--	--	--
40 2754.00 SACRAMENTO R RL RED BLUFF DIV ON A1380																				
10/26/84 0825	5050 5050	5300	10.6 163	57.2F 14.0C	7.4	137	--	--	--	--	--	--	--	--	--	44F	--	--	--	--
11/10/84 0830	5050 5050	21940	10.6 99	53.6F 12.0C	7.4	137	--	--	--	--	--	--	--	--	--	74F	--	--	--	--
12/17/84 0955	5050 5050	14000	11.3 99	49.1F 9.5C	7.3	135	--	--	--	--	--	--	--	--	--	44F	--	--	--	--
01/22/85 1015	5050 5050	7320	11.6 101	46.2F 9.0C	7.4	131	--	--	--	--	--	--	--	--	--	24F	--	--	--	--
02/20/85 0845	5050 5050	6600	10.9 95	44.2F 9.0C	7.6	137	--	--	--	--	--	--	--	--	--	34F	--	--	--	--
03/19/85 0935	5050 5050	5300	12.0 112	53.6F 12.0C	7.7 6.4	144 154	12 460	8.0 49	9.6 33	9.6 26	64 1.2F	--	4.0 11	--	41	--	54 0	0.4 0.6	--	5
04/25/85 0830	5050 5050	6240	11.7 109	53.6F 12.0C	7.6	144	--	--	--	--	--	--	--	--	--	34F	--	--	--	--
05/27/85 1250	5050 5050	6960	11.5 114	58.6F 14.8C	7.8	131	--	--	--	--	--	--	--	--	--	24F	--	--	--	--
06/24/85 0714	5050 5050	10400	11.0 107	57.2F 14.0C	7.9	131	--	--	--	--	--	--	--	--	--	34F	--	--	--	--
07/23/85 0745	5050 5050	14000	10.7 104	57.2F 14.0C	7.4	127	--	--	--	--	--	--	--	--	--	34F	--	--	--	--
08/26/85 0734	5050 5050	6960	9.6 102	44.4F 16.0C	7.7	129	--	--	--	--	--	--	--	--	--	44F	--	--	--	--
09/13/85 0730	5050 5050	4560	9.7 161	42.4F 17.0C	7.3	126	--	--	--	--	--	--	--	--	--	44F	--	--	--	--

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	G.P. G	RE SET	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN	MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				REMARKS	
							CA	MG	NA	K	PERCENT CACO3	REACTANCE %04	VALUE CL	NO3	TURB	SI02	TDS	TH MCH		SAP 4580
AO 2750.00						TF-HAWA COLIHA CANAL NR RENO ALIFF				41390										
10/24/84 0715	5050 5050	715	10.2 00	57.2F 14.0C	7.6 143	-- -- -- --	--	--	--	--	--	--	--	--	--	--	--	--	--	
11/19/84 0744	5050 4040	115	10.6 00	53.6F 12.0C	7.4 147	-- -- -- --	--	--	--	--	--	--	--	--	--	--	124F	--	--	
12/17/84 0615	5050 5050	115	10.9 00	49.1F 9.5C	7.3 138	-- -- -- --	--	--	--	--	--	--	--	--	--	--	54F	--	--	
01/23/85 0940	5050 5050	115	11.3 00	49.1F 9.5C	7.4 154	-- -- -- --	--	--	--	--	--	--	--	--	--	--	34F	--	--	
02/20/85 0910	4050 5050	176	10.6 93	49.1F 9.5C	7.6 150	-- -- -- --	--	--	--	--	--	--	--	--	--	--	44F	--	--	
03/19/85 0830	5050 5050	115	11.2 104	53.6F 12.0C	7.7 149	-- -- -- --	--	--	--	--	--	--	--	--	--	--	24F	--	--	
04/25/85 0755	5050 5050	1540	11.1 103	53.6F 12.0C	7.9 148	-- -- -- --	--	--	--	--	--	--	--	--	--	--	34F	--	--	
05/22/85 1215	5050 5050	1403	11.0 109	58.6F 14.5C	7.6 132 8.0 135	11 5.0 8.6 .95 .41 .35 42 31 27	--	--	--	--	56	--	3.0 .08	--	.1	--	--	48 0.5 0 0.5	--	
06/24/85 0845	5050 4050	1688	10.9 106	57.2F 14.0C	7.9 138	-- -- -- --	--	--	--	--	--	--	--	--	--	--	34F	--	--	
07/23/85 0710	5050 5050	1420	10.1 60	49.1F 14.5C	7.8 131	-- -- -- --	--	--	--	--	--	--	--	--	--	--	34F	--	--	
08/26/85 1110	5050 5050	834	9.4 101	44.4F 18.0C	7.7 129	-- -- -- --	--	--	--	--	--	--	--	--	--	--	24F	--	--	
09/11/85 0700	5050 5050	990	9.5 90	62.6F 17.0C	7.4 129	-- -- -- --	--	--	--	--	--	--	--	--	--	--	34F	--	--	
AO 2785.00						SACRAMENTO R & RENO RR				41740										
10/24/84 1124	5050 4050	8.04 9775	10.1 101	59.0F 15.0C	7.6 143	-- -- -- --	--	--	--	--	--	--	--	--	--	--	34F	--	--	
11/21/84 0745	5050 5050	13.66 15400	10.5 96	51.8F 11.0C	7.3 111	-- -- -- --	--	--	--	--	--	--	--	--	--	--	34F	--	--	
12/19/84 1635	5050 5050	12.12 11600	12.5 100	48.2F 9.0C	7.1 136	-- -- -- --	--	--	--	--	--	--	--	--	--	--	44F	--	--	
01/16/85 0810	5050 4050	19.36 4626	11.7 102	48.2F 9.0C	7.3 149	-- -- -- --	--	--	--	--	--	--	--	--	--	--	34F	--	--	
02/14/85 1330	5050 5050	18.01 3773	11.7 164	50.0F 10.0C	7.7 155	-- -- -- --	--	--	--	--	--	--	--	--	--	--	34F	--	--	
03/12/85 0800	5050 5050	18.28 4410	11.4 102	50.0F 10.0C	7.4 150	-- -- -- --	--	--	--	--	--	--	--	--	--	--	44F	--	--	
04/17/85 5050	5050 4050	18.48 4930	10.9 104	55.4F 13.0C	7.6 139	-- -- -- --	--	--	--	--	--	--	--	--	--	--	34F	--	--	
05/23/85 0655	5050 5050	18.48 6200	10.7 104	57.2F 14.0C	7.5 137 8.4 134	11 5.0 8.6 .95 .41 .35 42 31 27	--	--	--	--	58	--	3.0 .08	--	.0	--	--	48 0.5 0 0.5	--	
06/11/85 1050	5050 5050	19.36 8490	10.5 102	47.2F 14.0C	7.3 132	-- -- -- --	--	--	--	--	--	--	--	--	--	--	34F	--	--	
07/25/85 0715	5050 4050	11.22 9450	12.6 97	57.2F 14.0C	7.4 130	-- -- -- --	--	--	--	--	--	--	--	--	--	--	34F	--	--	
08/21/85 1100	5050 4050	10.15 7700	10.0 160	59.0F 15.0C	7.3 128	-- -- -- --	--	--	--	--	--	--	--	--	--	--	34F	--	--	
09/24/85 0705	5050 5050	8.79 7604	9.4 94	42.6F 17.0C	7.3 137	-- -- -- --	--	--	--	--	--	--	--	--	--	--	24F	--	--	
AO 2926.00						R-R 1500 OR SLIT TO SAC SLIT NR PARNAN				46740										
10/30/84 1040	5050 4050	0	11.0 104	57.2F 14.0C	8.1 1140	-- -- -- --	--	--	--	--	--	--	--	--	--	--	194F	--	--	
11/29/84 1055	5050 5050	0	9.0 96	50.0F 10.0C	7.7 885	-- -- -- --	--	--	--	--	--	--	--	--	--	--	474F	--	--	

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. O	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				TDS MCM	TH MCM	FAP MCM	PEM
						CA	MG	NA	K	CaCO3	SO4	CL	NO3	TJBR	STP	SIH	NCH				
AO 2926.00		R-D 1500 DR SLU TO SAC SLU NR KARNAK										AC740 CONTINUED									
01/27/85 1345	5050 5050	0	10.6 01	46.2F 9.0C	R.2 R.3	1480 1560	58 2.80 20	63 4.18 36	147 6.35 44	--	303 6.05	--	2.22 7.30	--	2.1A	--	--	404 101	3.2 7.9	--	5
03/28/85 1125	5050 5050	0	11.3 107	55.4F 11.0C	R.3	1280	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/29/85 0950	5050 5050	0	8.2 90	66.0F 20.0C	7.8	646	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/29/85 1110	5050 5050	0	8.2 88	66.2F 19.0C	7.6	539	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/26/85 1050	5050 5050	0	6.5 78	77.0F 25.0C	7.6 6.2	466 472	28 1.40 30	19 1.56 33	36 1.76 56	--	156 3.12	--	43 1.21	--	35A	--	2	148 0	1.4 2.6	--	5
07/30/85 1005	5050 5050	0	7.6 89	74.3F 23.5C	7.6	211	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/28/85 1040	5050 5050	0	7.1 82	73.4F 23.0C	7.3	478	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/26/85 1040	5050 5050	0	7.6 88	73.4F 23.0C	8.0	862	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AO 2927.00		SUTTER RP A R-D 1500 PP A KARNAK										AC740									
10/30/84 1020	5050 5050	381	9.2 91	59.0F 15.0C	7.3	277	--	--	--	--	--	--	--	--	--	--	--	148F	--	--	--
11/29/84 1050	5050 5050	1600	9.8 86	49.1F 9.5C	7.3	189	--	--	--	--	--	--	--	--	--	--	--	254F	--	--	--
12/27/84 1215	5050 5050	581	11.5 95	44.6F 7.0C	7.6	332	--	--	--	--	--	--	--	--	--	--	--	176F	--	--	--
01/27/85 1330	5050 5050	576	11.4 98	46.2F 9.0C	7.6 6.2	395 408	29 1.45 34	21 1.73 40	26 1.13 26	--	176 3.52	--	14 4.5	--	21A	--	1	159 0	0.9 1.7	--	5
02/25/85 1240	5050 5050	966	10.1 100	59.0F 15.0C	6.0 6.2	406 428	36 3.80 34	27 2.22 42	29 1.26 24	--	184 3.88	--	17 4.6	--	11A	--	0	281 17	0.9 1.8	--	5
03/28/85 1115	5050 5050	768	10.0 93	53.6F 12.0C	7.6	252	--	--	--	--	--	--	--	--	--	--	--	194F	--	--	--
04/29/85 0935	5050 5050	609	8.7 92	65.1F 18.5C	7.6	266	--	--	--	--	--	--	--	--	--	--	--	148F	--	--	--
05/29/85 1055	5050 0000	1210	7.8 83	65.3F 18.5C	7.7	274	--	--	--	--	--	--	--	--	--	--	--	194F	--	--	--
06/26/85 1045	5050 5050	855	6.8 79	77.0F 23.0C	7.8	359	--	--	--	--	--	--	--	--	--	--	--	254F	--	--	--
07/30/85 0935	5050 5050	1200E	6.6 78	75.2F 24.0C	7.4	268	--	--	--	--	--	--	--	--	--	--	--	136F	--	--	--
08/28/85 1025	5050 5050	1850	6.8 79	73.4F 23.0C	7.4	300	--	--	--	--	--	--	--	--	--	--	--	214F	--	--	--
09/26/85 1030	5050 5050	823	7.6 86	71.6F 22.0C	7.6	345	--	--	--	--	--	--	--	--	--	--	--	244F	--	--	--
AO 2933.00		Q-N 108 NR TO SAC R										AC740									
10/30/84 1125	5050 5050	0	7.6 75	59.0F 15.0C	8.0	665	--	--	--	--	--	--	--	--	--	--	--	144F	--	--	--
11/29/84 1150	5050 5050	0	9.7 88	50.0F 10.0C	7.8	654	--	--	--	--	--	--	--	--	--	--	--	194F	--	--	--
12/27/84 1345	5050 5050	0	11.9 95	42.8F 6.8C	8.2 8.8	1140 1170	46 2.30 30	49 4.03 33	138 6.60 49	--	318 6.35	--	81 2.28	--	31A	--	4	317 0	3.4 9.2	--	5
01/27/85 1440	5050 5050	0	10.0 88	50.0F 10.0C	8.2	1290	--	--	--	--	--	--	--	--	--	--	--	34F	--	--	--
02/25/85 1130	5050 5050	0	8.7 82	55.4F 13.0C	8.2	1370	--	--	--	--	--	--	--	--	--	--	--	254F	--	--	--
03/28/85 1235	5050 5050	0	10.4 104	59.9F 15.5C	8.1	687	--	--	--	--	--	--	--	--	--	--	--	434F	--	--	--

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLED LAT	G.W. O	NO. SAT	TEMP	FIELD LABORATORY RH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				TDS S/M	TH MCH	SAR ASAR	REH
						CA	MG	NA	K	CL	NO3	SO4	CO3	SiO2							
AC 2043.00 R-N 104 NR TO SAC R AC780 CONTINUED																					
04/20/83 1100	5050 5650	0	A.6 07	70.7F 21.5C	A.0 503	--	--	--	--	--	--	--	--	314F	--						
05/20/85 1225	5050 5650	0	7.7 87	71.4F 22.0C	7.9 501	--	--	--	--	--	--	--	--	424F	--						
06/26/85 1145	5050 5070	0	7.0 90	64.2F 20.0C	7.8 487	--	--	--	--	--	--	--	--	254F	--						
07/30/85 1105	5050 5050	0	A.6 70	76.1F 24.5C	7.4 167	--	--	--	--	--	--	--	--	14F	--						
08/26/85 1155	5050 5050	0	A.6 76	73.4F 23.0C	7.4 512	--	--	--	--	--	--	--	--	434F	--						
09/26/85 1145	5050 5050	107	A.5 78	77.0F 25.0C	7.0 861	--	--	--	--	--	--	--	--	424F	--						
AO 2047.10 COLUSA HAS OR NR KNIGHTS LOG AO781																					
10/30/84 1100	5650 5050	22.91 045	0.4 02	98.1F 14.5C	7.9 507	--	--	--	--	--	--	--	--	384F	--						
11/20/84 1135	5050 5050	223	0.7 86	50.0F 10.0C	7.6 620	--	--	--	--	--	--	--	--	724F	--						
12/27/84 1330	5050 5050	243	11.5 65	44.6F 7.0C	A.1 1010	--	--	--	--	--	--	--	--	264F	--						
01/27/85 1435	5050 5050	307	0.9 85	48.2F 9.0C	A.2 1140	--	--	--	--	--	--	--	--	314F	--						
02/25/85 1200	5050 5050	23.08 174	0.6 03	57.2F 14.0C	A.2 1340	--	--	--	--	--	--	--	--	254F	--						
03/26/85 1215	5050 5050	23.07 270	10.1 61	51.8F 11.0C	A.2 1083	--	--	--	--	--	--	--	--	144F	--						
04/20/85 1045	5050 5050	176	A.3 60	67.1F 19.5C	7.9 402 A.4 402	21 1.05	35 1.23	4C 1.74	--	129 2.58	--	18 .51	--	.2 544	--			114 0	1.6 2.7		5
05/20/85 1205	5650 5050	24.06 1300	7.8 85	88.0F 20.0C	7.5 440	--	--	--	--	--	--	--	--	444F	--						
06/26/85 1135	5050 5050	738	A.3 77	78.8F 26.0C	7.8 482	--	--	--	--	--	--	--	--	404F	--						
07/30/84 1045	5050 5050	25.86 1030	A.7 85	72.4F 24.0C	7.7 300	--	--	--	--	--	--	--	--	674F	--						
08/28/85 1110	5050 5050	1740	7.0 80	72.5F 22.5C	7.7 400	--	--	--	--	--	--	--	--	344F	--						
09/26/85 1115	5050 5050	A31	7.2 42	71.6F 22.0C	7.9 473	--	--	--	--	--	--	--	--	454F	--						
AO 2046.00 R-N 787 DRAINAGE TO COLUSA HAS DRAIN AO740																					
10/30/84 1055	5050 5050	0	0.4 07	96.0F 15.0C	A.3 840	--	--	--	--	--	--	--	--	334F	--						
01/27/85 1425	5050 5050	0	12.3 104	46.4F 5.0C	A.1 833	--	--	--	--	--	--	--	--	194F	--						
02/25/85 1145	5050 4050	0	A.2 60	57.2F 14.0C	7.9 863	--	--	--	--	--	--	--	--	344F	--						
03/28/85 1205	5050 5050	0	0.3 84	51.4F 11.0C	A.2 821	--	--	--	--	--	--	--	--	234F	--						
04/20/85 1030	5050 5650	0	A.6 63	67.1F 19.5C	7.5 238	--	--	--	--	--	--	--	--	274F	--						
05/20/85 1150	5050 5650	0	A.4 01	67.1F 19.5C	7.8 867 A.1 843	36 1.80	39 2.71	78 3.35	--	205 4.10	--	36 1.02	--	.7 204	--			226 21	2.3 4.8		5
06/26/85 1124	5050 5050	0	13.8 172	80.4F 27.0C	A.6 330 A.2 342	18 1.32	14 1.26	26 34	--	133 2.66	--	11 .31	--	.4 344	--			111 0	1.2 2.0		5
07/30/85 1145	5050 5050	0	7.1 85	77.0F 25.0C	A.0 136	--	--	--	--	--	--	--	--	34F	--						

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	C.H. O	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE										MICROGRAMS PER LITER					REM
							CA	MG	NA	K	CACN3	SO4	CL	NO3	THOR	SIOP	TDS	TM	SAP	REM						
AO 2900.00		R-D 787 DRAINAGE TO COLUSA 445 DRAIN										AC740 CONTINUED														
08/28/85	5050			6.6	73.4F	7.8	617	--	--	--	--	--	--	--	--	--	--	--	--	--						
1125	5050	3.7		76	23.0C																					
09/26/85	5050			6.6	77.0F	8.1	730	--	--	--	--	--	--	--	--	--	--	--	--	--						
1125	5050	0		79	23.0C																					
AO 2955.00		R-D 787 DRAINAGE TO SACRAMENTO R										AO740														
11/29/84	5050			9.2	52.7F	7.6	524	--	--	--	--	--	--	--	--	--	--	--	--	--						
1205	5050	0		84	11.5C																					
12/27/84	5050			6.8	50.0F	7.7	622	--	--	--	--	--	--	--	--	--	--	--	--	--						
1405	5050	0		76	10.0C																					
01/27/85	5050			9.8	46.4F	8.0	871	--	--	--	--	--	--	--	--	--	--	--	--	--						
1505	5050	0		83	6.0C																					
03/26/85	5050			11.7	53.6F	8.4	1028	--	--	--	--	--	--	--	--	--	--	--	--	--						
1250	5050	0		108	12.0C																					
04/28/85	5050			10.2	67.1F	8.0	230	--	--	--	--	--	--	--	--	--	--	--	--	--						
1115	5050	0		110	14.5C																					
05/20/85	5050			7.5	68.0F	7.5	444	--	--	--	--	--	--	--	--	--	--	--	--	--						
1245	5050	0		82	20.0C																					
06/26/85	5050			7.8	77.0F	7.5	475	--	--	--	--	--	--	--	--	--	--	--	--	--						
1210	5050	0		94	23.0C																					
07/30/85	5050			4.4	72.5F	7.1	283	--	--	--	--	--	--	--	--	--	--	--	--	--						
1120	5050	23		50	22.5C																					
08/28/85	5050			6.2	74.3F	7.4	590	28	25	60	--	180	--	34	--	.5	--	--	--	--						
1210	5050	0		72	23.5C	8.6	584	1.40	2.06	2.01	--	3.78	--	.96	--	354	--	--	--	--						
								23	34	43																
09/26/85	5050			14.0	75.2F	8.6	477	--	--	--	--	--	--	--	--	--	--	--	--	--						
1210	5050	0		165	24.0C																					
AO 2965.00		R-D 787 DRAINAGE TO SACRAMENTO R										AO740														
10/30/84	5050			6.8	57.2F	7.9	650	--	--	--	--	--	--	--	--	--	--	--	--	--						
0940	5050	0		66	14.0C																					
11/29/84	5050			8.3	53.6F	7.4	602	--	--	--	--	--	--	--	--	--	--	--	--	--						
1005	5050	30		77	12.0C																					
02/25/85	5050			8.6	56.3F	7.8	879	--	--	--	--	--	--	--	--	--	--	--	--	--						
1030	5050	0		82	13.5C																					
03/28/85	5050			9.2	52.7F	8.0	414	--	--	--	--	--	--	--	--	--	--	--	--	--						
1035	5050	0		84	11.5C																					
04/29/85	5050			9.6	68.9F	8.1	270	--	--	--	--	--	--	--	--	--	--	--	--	--						
0900	5050	0		106	20.5C																					
05/29/85	5050			7.7	62.0F	7.7	328	21	14	23	--	116	--	18	--	.1	--	--	--	--						
1010	5050	19		79	17.0C	7.9	317	1.05	1.15	1.00	--	2.32	--	.91	--	964	--	--	--	--						
								33	36	31																
06/26/85	5050			8.5	75.2F	7.8	321	--	--	--	--	--	--	--	--	--	--	--	--	--						
1000	5050	0		77	24.0C																					
07/30/85	5050			6.4	70.7F	7.5	105	--	--	--	--	--	--	--	--	--	--	--	--	--						
0915	5050	23		72	21.5C																					
08/28/85	5050			6.9	72.5F	7.6	317	--	--	--	--	--	--	--	--	--	--	--	--	--						
0945	5050	0		79	22.5C																					
09/26/85	5050			10.0	71.6F	8.3	472	--	--	--	--	--	--	--	--	--	--	--	--	--						
0945	5050	0		114	22.0C																					
AO 2972.00		R-D 787 DRAINAGE TO SACRAMENTO R										AO740														
10/30/84	5050			6.8	57.2F	7.2	251	--	--	--	--	--	--	--	--	--	--	--	--	--						
0920	5050	274		64	14.0C																					
11/29/84	5050			8.7	59.1F	7.3	392	--	--	--	--	--	--	--	--	--	--	--	--	--						
0944	5050	2230		84	9.5C																					
12/27/84	5050			11.1	66.6F	7.4	299	--	--	--	--	--	--	--	--	--	--	--	--	--						
1115	5050			91	7.0C																					
01/27/85	5050			11.1	66.4F	7.4	324	25	17	21	--	190	--	10	--	.1	--	--	--	--						
1230	5050	700		64	8.0C	8.2	342	1.25	1.40	.91	--	7.00	--	.28	--	274	--	--	--	--						
								34	39	24																

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER L&P	G. + O	ON SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER					
						Ca	Mg	Na	K	CaCO ₃	SO ₄	CL	NO ₃	TOTAL	SiO ₂	TDS	TH	SAF	DEM
AC 2072.00 RITTE 51U NW MERIDIAN AC7CO CONTINUED																			
02/24/85 1009	5050 5050	41.39 214	9.4 01	57.2F 14.0C	7.7 288	--	--	--	--	--	--	--	--	--	--	244F	--	--	--
03/28/85 1010	5050 5050	42.60 423	10.2 01	50.9F 10.5C	7.5 225	--	--	--	--	--	--	--	--	--	--	444F	--	--	--
04/20/85 0940	5050 5050	41.40 249	7.2 79	68.0F 20.0C	7.3 259	--	--	--	--	--	--	--	--	--	--	174F	--	--	--
05/20/85 0945	5050 5050	42.86 432	7.6 83	68.0F 20.0C	7.3 232	--	--	--	--	--	--	--	--	--	--	114F	--	--	--
06/26/85 0935	5050 5050	43.09 447	6.6 79	77.0F 25.0C	7.4 283	--	--	--	--	--	--	--	--	--	--	124F	--	--	--
07/30/85 0955	5050 5050	44.35 689	6.6 78	75.2F 24.0C	7.3 191	--	--	--	--	--	--	--	--	--	--	144F	--	--	--
08/28/85 0920	5050 5050	45.26 801	6.5 75	73.4F 23.0C	7.2 274	24 1.20	15 1.23	16 0.7C	--	141 2.82	--	4.0 1.11	--	1	--	122 0	0.6 1.1	--	5
09/26/85 0920	5050 5050	41.41 368	6.4 74	73.4F 23.0C	7.2 349	--	--	--	--	--	--	--	--	--	--	244F	--	--	--
AD 2074.00 CONUSA BAS 08 & HWY 20 AD7#1																			
10/30/84 0945	5050 5050	40.04 401	9.6 01	51.4F 13.0C	7.0 508	--	--	--	--	--	--	--	--	--	--	234F	--	--	--
11/29/84 0955	5050 5050	45.47 1470	9.8 86	49.1F 9.5C	7.5 470	--	--	--	--	--	--	--	--	--	--	1204F	--	--	--
12/27/84 1025	5050 5050	39.01 313	12.3 101	44.6F 7.0C	8.1 959	--	--	--	--	--	--	--	--	--	--	144F	--	--	--
01/27/85 1140	5050 5050	38.42 211	11.6 99	47.3F 6.5C	8.0 1120	--	--	--	--	--	--	--	--	--	--	164F	--	--	--
02/25/85 0920	5050 5050	38.10 154	9.5 90	55.4F 13.0C	8.1 1000	--	--	--	--	--	--	--	--	--	--	304F	--	--	--
03/28/85 0930	5050 5050	38.54 233	10.7 95	50.0F 10.0C	8.2 907	51 2.54	38 3.11	123 5.35	--	235 4.70	--	83 1.76	--	3	--	284 49	3.2 7.1	--	5
04/20/85 0745	5050 5050	38.61 243	8.1 85	64.4F 16.0C	8.2 441	--	--	--	--	--	--	--	--	--	--	584F	--	--	--
05/20/85 0900	5050 5050	39.01 313	8.8 93	64.4F 18.0C	7.8 454	--	--	--	--	--	--	--	--	--	--	514F	--	--	--
06/26/85 0945	5050 5050	42.05 904	7.3 85	73.4F 23.0C	7.8 442	--	--	--	--	--	--	--	--	--	--	214F	--	--	--
07/30/85 0900	5050 5050	44.34 1394	7.4 88	70.7F 21.9C	7.5 306	--	--	--	--	--	--	--	--	--	--	374F	--	--	--
08/28/85 0935	5050 5050	44.81 1608	7.6 86	68.0F 20.0C	7.4 371	--	--	--	--	--	--	--	--	--	--	204F	--	--	--
09/26/85 0845	5050 5050	41.70 730	7.1 73	62.6F 17.0C	7.8 440	--	--	--	--	--	--	--	--	--	--	254F	--	--	--
AG 3220.01 THOMES C & RICHFIELD AG13#0																			
12/17/84 1120	5050 5050	42.5 450E	12.5 105	45.5F 7.5C	7.7 205	--	--	--	--	--	--	--	--	--	--	54F	--	--	--
01/24/85 0914	5050 5050	40.0 2E	8.0 92	71.6F 22.0C	7.5 320	--	--	--	--	--	--	--	--	--	--	24F	--	--	--
AD 3320.00 ELDER C & GERBER AG13#0																			
12/17/84 1055	5050 5050	40.6 75E	12.0 90	46.6F 7.0C	7.9 310	--	--	--	--	--	--	--	--	--	--	24F	--	--	--
06/24/85 0900	5050 5050	40.1 5E	9.1 100	66.0F 20.0C	8.1 452	--	--	--	--	--	--	--	--	--	--	24F	--	--	--

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

TIME	SAMPLER LAR	G.W. 0	DO SAT	TEMP	FIELD LABORATORY PH	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALU				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALU				REM
						CA	MG	NA	K	CA	MG	NA	K	CA	MG	NA	K	

		AO	3440.00	RED BANK C NR REO BLUFF										A1390				
01/22/85	5050	3.98	12.2	53.6F	R.2	504	--	--	--	--	--	--	--	--	--	--	--	
1990	5050	6.4	115	12.0C												14F	--	
		AO	3500.00	THOMAS C A PASKENTA										A1390				
10/26/84	5050	2.02	10.7	66.2F	R.3	364	--	--	--	--	--	--	--	--	--	--	--	
1105	5050	17	117	19.0C												24F	--	
11/19/84	5050	3.85	11.4	48.2F	7.5	139	--	--	--	--	--	--	--	--	--	--	--	
1105	5050	51.9	102	9.0C												204F	--	
12/17/84	5050	5.38	12.0	44.6F	7.6	181	--	--	--	--	--	--	--	--	--	--	--	
1505	5050	277	101	7.0C												94F	--	
01/22/85	5050	3.02	12.5	48.2F	R.0	182	--	--	--	--	--	--	--	--	--	--	--	
1245	5050	230	110	9.0C												44F	--	
02/20/85	5050	3.29	11.2	48.2F	7.8	162	--	--	--	--	--	--	--	--	--	--	--	
1135	5050	265	99	9.0C												94F	--	
03/19/85	5050	3.07	11.2	55.4F	7.9	184	--	--	--	--	--	--	--	--	--	--	--	
1205	5050	206	108	13.0C												124F	--	
04/25/85	5050	3.07	10.6	57.2F	8.0	175	--	--	--	--	--	--	--	--	--	--	--	
1200	5050	190	105	14.0C												44F	--	
05/22/85	5050	2.67	R.6	79.2F	8.2	185	25	5.0	3.0	--	7.6	--	3.0	--	.0	--	--	
1535	5050	9.9	108	26.2C	8.0	193	1.25	.41	.13	--	1.52	--	.04	--	14	--	--	
							70	23	7									5
06/24/85	5050	1.92	9.0	77.0F	8.5	266	--	--	--	--	--	--	--	--	--	--	--	
1045	5050	20	110	25.0C												24F	--	
07/23/85	5050	1.57	9.5	87.8F	R.5	326	--	--	--	--	--	--	--	--	--	--	--	
1045	5050	3.4	129	31.0C												24F	--	
08/26/85	5050	1.48	9.7	82.4F	R.3	360	--	--	--	--	--	--	--	--	--	--	--	
1010	5050	2.2	125	28.0C												24F	--	
09/13/85	5050	1.74	10.1	71.8F	8.3	428	--	--	--	--	--	--	--	--	--	--	--	
1115	5050	10	117	22.0C												94F	--	
		AO	3520.50	COTTONWOOD C A COTTONWOOD										A1780				
10/24/84	5050	10.6	62.6F	7.5	286	25	13	11	--	105	--	17	--	.0	--	--	--	
1100	5050	140	111	17.0C	8.0	287	1.25	1.07	.48	2.10	--	.48	--	34	--	--	--	
							45	38	17									5
11/21/84	5050	11.0	68.2F	7.5	210	--	--	--	--	--	--	--	--	--	--	--	--	
0900	5050	1220	96	9.0C												94F	--	
12/19/84	5050	11.9	41.0F	7.3	270	--	--	--	--	--	--	--	--	--	--	--	--	
1105	5050	678	94	5.0C												34F	--	
01/16/85	5050	12.2	44.6F	7.9	296	--	--	--	--	--	--	--	--	--	--	--	--	
0925	5050	394	102	7.0C												14F	--	
02/14/85	5050	11.2	50.0F	7.8	270	26	13	11	--	109	--	7.0	--	.0	--	--	--	
1300	5050	690	100	10.0C	R.2	280	1.30	1.07	.48	2.18	--	.20	--	24	--	--	--	
							46	38	17									5
03/12/85	5050	11.0	51.8F	7.8	308	--	--	--	--	--	--	--	--	--	--	--	--	
0910	5050	487	101	11.0C												14F	--	
04/17/85	5050	9.8	62.6F	8.0	220	--	--	--	--	--	--	--	--	--	--	--	--	
1220	5050	596	162	17.0C												34F	--	
05/23/85	5050	8.9	71.6F	7.7	257	--	--	--	--	--	--	--	--	--	--	--	--	
0810	5050	204	102	22.0C												34F	--	
06/14/85	5050	9.8	77.0F	7.9	254	--	--	--	--	--	--	--	--	--	--	--	--	
1020	5050	120	119	25.0C												24F	--	
07/25/85	5050	7.5	77.0F	7.1	218	--	--	--	--	--	--	--	--	--	--	--	--	
0840	5050	4.9	91	25.0C												34F	--	
08/21/85	5050	9.7	75.2F	7.3	223	--	--	--	--	--	--	--	--	--	--	--	--	
1025	5050	47	116	24.0C												24F	--	
09/24/85	5050	8.5	64.4F	7.1	218	--	--	--	--	--	--	--	--	--	--	--	--	
0815	5050	100	90	18.0C												24F	--	

TABLE C-1 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER																						
DATE TIME	SAMPLER LAW	G.H. O	NO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER						
						CA	MG	NA	K			SO4	CL	NO3		SO4	CL	NO3	TAH	TAH	TAH	TAH
.....																						
AC 3449.00 COTTONWOOD C WF NR IGO																						
11/21/84 0955	5050 5050	5.29 236	11.5 90	46.4F 8.0C	7.4	137	--	--	--	--	--	--	--	--	--	--	--	4AF	--	--	--	--
01/16/85 1020	5050 5050	4.99 90	12.7 104	42.8F 6.0C	7.6	145	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--
03/12/85 1005	5050 5050	30.96 544	11.6 105	50.0F 10.0C	7.6	198	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--
05/23/85 0930	5050 5050	20.52 11	9.0 108	75.2F 24.0C	8.0	214	21 1405	7.0 .56	11 .48	--	77 1.54	--	31 .31	--	--	1A	--	--	R2 5	0.5 0.7	--	5
07/24/85 0950	5050 5050	20.26 1.3	8.5 108	80.6F 27.0C	7.7	287	--	--	--	--	--	--	--	--	--	--	--	2AF	--	--	--	--
09/24/85 0920	5050 5050	20.51 9.7	9.4 103	84.4F 18.0C	7.9	242	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--
AC 3581.00 COTTONWOOD C WF NR GAS PT																						
11/21/84 0935	5050 5050	11.9 102	46.4F 8.0C	7.9	216	--	--	--	--	--	--	--	--	--	--	--	--	3AF	--	--	--	--
03/12/85 1045	5050 5050	11.3 105	52.7F 11.5C	8.1	292	--	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--
05/23/85 0855	5050 5050	9.1 103	69.8F 21.0C	8.2 8.0	236 262	27 1.39	9.0 .74	11 .48	-- 1.0	104 2.08	--	10 .28	--	--	14	--	--	105 1	0.5 0.7	--	5	--
07/25/85 0925	5050 5050	8.2 106	82.4F 28.0C	8.2	330	--	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--
09/24/85 0840	5050 5050	8.7 101	71.6F 22.0C	8.2	277	--	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--
AC 3595.00 COTTONWOOD C SF NR COTTONWOOD																						
11/21/84 0830	5050 5050	11.6 90	46.4F 8.0C	7.6	216	--	--	--	--	--	--	--	--	--	--	--	--	7AF	--	--	--	--
01/16/85 0855	5050 5050	12.5 102	42.8F 8.0C	7.9	344	--	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--
03/12/85 0945	5050 5050	11.6 53E	50.0F 10.0C	7.9	326	--	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--
05/23/85 0740	5050 5050	8.9 103	71.6F 22.0C	8.2 7.9	248 260	20 1.45	9.0 .66	12 .52	-- 2.0	99 1.98	--	12 .34	--	--	24	--	--	106 7	0.5 0.8	--	5	--
09/24/85 0750	5050 5050	8.9 1E	64.4F 19.0C	7.8	340	--	--	--	--	--	--	--	--	--	--	--	--	2AF	--	--	--	--
AC 4321.01 OGER C A HWY 90E NR VINA																						
11/30/84 1100	5050 5050	12.4 105	46.4F 8.0C	7.4	107	--	--	--	--	--	--	--	--	--	--	--	--	3AF	--	--	--	--
01/22/85 1725	5050 5050	12.2 96	41.0F 5.0C	7.6 8.1	161 149	11 .55	6.0 .49	1C .44	-- 1.34	67 1.34	--	3.0 .08	--	--	3A	--	--	52 0	0.6 0.7	--	5	--
03/29/85 1220	5050 5050	12.8 249	50.0F 10.0C	7.7	120	--	--	--	--	--	--	--	--	--	--	--	--	2AF	--	--	--	--
05/30/85 1205	5050 5050	10.7 144	68.0F 20.0C	8.3 7.8	197 151	11 .55	6.0 .49	1C .44	-- 1.38	69 1.38	--	4.0 .11	--	--	11	--	--	52 0	0.6 0.7	--	5	--
07/31/85 1335	5050 5050	11.1 136	78.8F 26.0C	8.4	301	--	--	--	--	--	--	--	--	--	--	--	--	9AF	--	--	--	--
09/27/85 1215	5050 5050	9.8 90	73.4F 23.0C	7.5	208	--	--	--	--	--	--	--	--	--	--	--	--	4AF	--	--	--	--
AC 4426.50 MILL C NR 90 NR LOS MOLINOS																						
10/26/84 0955	5050 5050	11.2 107	55.4F 13.0C	7.6	108	--	--	--	--	--	--	--	--	--	--	--	--	2AF	--	--	--	--
11/19/84 0950	5050 5050	11.7 162	48.2F 9.0C	7.4	149	--	--	--	--	--	--	--	--	--	--	--	--	3AF	--	--	--	--
12/17/84 1620	5050 5050	13.0 166	43.7F 6.5C	7.4	149	--	--	--	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAR	C+4 O	OO SAT	TEMP	FIELD LABORATORY PN EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				TH	KAP ACAR	PEN					
						CA	MG	NA	K	CaCO3	SO4	CL	NO3	TOTA	SiO2	TH	NH4				ASAR				
AO 4420.30		MILL C NR MO NR LOS MOLINDOS												A13R0 CONTINUED											
01/22/83	5030		12.6	44.6F	7.7	103	12	5.0	16	--	--	49	--	17	--	4.5	--	--	90	1.0					
1035	5030	141	104	7.0C	7.6	105	12	5.0	16	--	--	98	--	17	--	4.5	--	--	90	1.0					
							35	24	43					2A					0.9		5				
02/20/85	5050		11.6	46.4F	7.5	170	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
0915	5050	207	48	8.0C											2AF										
03/19/85	5050		11.5	51.8F	7.6	107	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
0935	5050	214	105	11.0C											9AF										
04/25/85	5050		11.1	51.8F	7.4	144	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
0845	5050	235	101	11.0C											9AF										
05/22/85	5050		9.9	71.8F	7.7	131	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
1315	5050	240	113	22.0C											9AF										
06/24/85	5050		8.3	69.8F	7.3	106	14	5.0	15	--	--	31	--	16	--	4.5	--	--	36	0.9					
0735	5050	137	93	21.0C	7.8	107	17	5.0	15	--	--	1.02	--	16	--	4.5	--	--	36	0.9	5				
							40	23	37																
07/25/85	5050		6.2	75.2F	7.1	214	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
0810	5050	113	74	24.0C											1AF										
08/26/85	5050		6.2	73.4F	7.0	239	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
0955	5050	97	72	23.0C											1AF										
09/13/85	5050		10.0	58.1F	7.5	237	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
0750	5050	119	98	14.9C											9AF										
AO 4520.30		ANTELOPE C NR MO NR RED BLUFF												A13R0											
10/26/84	5050		9.2	59.0F	6.2	180	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
0840	5050	91	13.0C												9AF										
02/20/85	5050		10.4	50.0F	7.3	152	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
0855	5050	93	10.0C												9AF										
AO 4103.00		FEATHER R A NICOLAUS												A05R2											
10/25/84	5050		10.2	63 F	7.4	90	9.0	4.0	4.0	--	--	36	--	2.0	--	--	--	56	3.9	0.3					
1200	5050	106	17	7.2	7.7	97	4.5	3.3	1.7	--	--	72	--	0.06	--	--	1A	3	0.2						
							47	35	16																
11/28/84	5050		10.8	50 F	7.2	103	8.0	4.0	3.0	1.1	--	34	--	4.0	4.0	1.3	0	--	75	3.6	0.4				
1310	5050	24.06	95	10 C	7.7	105	4.0	3.3	1.7	0.02	--	76	--	0.08	0.11	0.02	48	3	0.2	E					
							41	34	22	3				9	12	2				T					
12/20/84	5050		10.8	48 F	7.3	91	9.0	4.0	4.0	--	--	36	--	2.0	--	--	--	58	3.9	0.3					
1230	5050	93	9 C	7.2			4.5	3.3	1.7	1.8	--	72	--	0.06	--	--	2A	3	0.2						
							47	35	16																
01/03/85	5050		11.5	44 F	7.2	93	9.0	4.0	4.0	0.8	--	36	--	4.0	1.0	0	0	--	44	3.9	0.3				
1145	5050	94	7 C	6.9			4.5	3.3	1.7	0.02	--	72	--	0.08	0.03	0.00	44	3	0.2	T					
							46	34	16	2				10	4	0				5					
02/19/85	5050		10.5	53 F	7.4	103	10	5.0	5.0	1.2	--	40	--	4.0	2.0	0.4	0	--	48	4.6	0.3				
1130	5050	96	12 C	7.8	104		5.0	4.1	2.2	0.03	--	80	--	0.08	0.06	0.01	52	6	0.3	T					
							43	35	16	3				6	6	1				5					
03/26/85	5050		11.0	52 F	7.4	107	10	5.0	5.0	--	--	44	--	3.0	--	--	--	44	4.6	0.3					
1215	5050	100	11 C	7.6	108		5.0	4.1	2.2	--	--	88	--	0.06	--	--	--	2	0.3						
							44	36	10																
04/26/85	5050		10.0	64.3F	7.6	90	12	6.0	5.0	--	--	41	--	2.0	--	--	--	43	34	0.1					
1215	5050	105	18.0C		7.4	101	8.0	4.0	2.2	--	--	82	--	0.06	--	--	5A	14	0.1						
							46	37	17																
05/30/85	5050		8.6	62.0F	7.4	106	10	4.0	4.0	--	--	34	--	4.0	--	--	--	62	4.2	0.3					
0930	5050	88	16.7C		8.0	94	5.0	3.3	1.7	--	--	78	--	0.11	--	--	5A	3	0.2						
							50	33	17																
06/26/85	5050		8.0	73.0F	7.8	111	10	4.0	5.0	--	--	40	--	2.0	--	--	--	42	0.3						
1100	5050	92	22.8C		7.9	93	5.0	3.3	1.7	--	--	80	--	0.06	--	--	5A	2	0.3						
							48	31	21																
07/30/85	5050		8.4	67.6F	7.7	108	9.0	4.0	4.0	--	--	--	--	1.0	--	--	--	40	3.9	0.0					
0930	5050	91	14.8C			94	4.5	3.3	1.7	--	--	--	--	0.03	--	--	1A								
							47	35	16																
08/15/85	5050		7.2	71.2F	7.8	105	9.0	4.0	5.0	--	--	46	--	2.0	--	--	--	62	3.9	0.3					
1100	5050	81	21.8C		8.2	101	4.5	3.3	1.7	--	--	92	--	0.06	--	--	3A	3	0.3						
							43	33	22																
09/19/85	5050		14.62	7.9	63.9F	7.7	110	10	5.0	3.6	1.0	48	--	4.0	2.0	0.1	0	--	68	4.6	0.3				
0900	5050	83	17.7C		8.2	104	5.0	4.1	2.2	0.03	--	96	--	0.08	0.06	0.00	56	0	0.3						
							43	34	14	3				7	5	0									
AO 9010.00		SUTTER RP STATE PP MD1 NR NICOLAUS												A07C0											
10/31/84	5050		8.0	57.2F	7.1	251	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
0905	5050	0	77	14.0C											9AF						5				
11/30/84	5050		9.0	49.1F	7.3	472	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5				
0805	5050	79	9.5C												9AF										
12/28/84	5050		12.1	42.8F	7.8	307	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
0925	5050	0	97	6.0C								1AF			4AF										

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

TIME	SAMPLER Lö	G.W. O	NO SAT	TEMP	FIELD LABORATORY PM	FIELD EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER						DEM
							CA	MG	NA		CaCO3	SO4	CL	NO3	O	F	TDS	NH4	SAP		
AO		5925.00		SUTTER RP STATE				PP NO3 NR YURA CITY				AO7CO CONTINUED									
05/30/83	5050			7.5	68.0F	7.3	374	--	--	--	--	--	--	--	--	--	--	--	--		
06/27/85	5050			6.0	78.8F	7.6	400	--	--	--	--	--	--	--	--	--	--	--	--		
07/31/85	5050			7.0	75.2F	7.8	400	--	--	--	--	--	--	--	--	--	--	--	--		
08/29/83	5050			6.7	73.4F	7.5	591	--	--	--	--	--	--	--	--	--	--	--	--		
09/27/85	5050			5.7	71.6F	7.6	406	--	--	--	--	--	--	--	--	--	--	--	--		
AO		5927.00		WADSWORTH CA NR SUTTER LO STA				AO7CO													
10/31/84	5050	38.13	10.0	54.5F	7.5	174	--	--	--	--	--	--	--	--	--	--	--	--	--		
11/30/84	5050			7.5	53.6F	7.3	423	--	--	--	--	--	--	--	--	--	--	--	--		
12/28/84	5050	37.43	11.6	51.8F	8.1	591	--	--	--	--	--	--	--	--	--	--	--	--	--		
01/28/85	5050	37.83		51.8F	8.2	560	--	--	--	--	--	--	--	--	--	--	--	--	--		
02/26/85	5050	37.55	6.0	53.6F	7.9	596	--	--	--	--	--	--	--	--	--	--	--	--	--		
03/29/85	5050	38.46	10.8	51.8F	7.6	162	--	--	--	--	--	--	--	--	--	--	--	--	--		
04/30/85	5050	38.14	7.2	65.3F	7.3	254	--	--	--	--	--	--	--	--	--	--	--	--	--		
05/30/85	5050	38.24	9.0	66.2F	7.9	272	--	--	--	--	--	--	--	--	--	--	--	--	--		
06/27/85	5050	38.34	7.5	73.4F	7.8	308	--	--	--	--	--	--	--	--	--	--	--	--	--		
07/31/85	5050	38.34	9.5	71.6F	7.7	519	--	--	--	--	--	--	--	--	--	--	--	--	--		
08/29/85	5050	38.33	9.1	69.8F	7.4	271	22	13	13	--	134	--	3.0	--	0	--	--	117	0.5		
09/27/85	5050	38.06	8.0	67.1F	7.6	223	--	--	--	--	--	--	--	--	--	--	--	0	0.9		
AO		6150.00		YURA R NR MARYSVILLE				AO8CO													
10/25/84	2163	60.01	10.4	53	7.1	89	--	--	--	--	--	--	--	--	--	--	--	52			
04/26/85	5050	53.28	10.2	60.6F	7.4	85	9.0	3.0	3.0	--	36	--	1.0	--	14	--	84	38	0.2		
08/15/85	2163		7.8	64.6F	7.6	102	--	--	--	--	--	--	--	--	--	--	84				
09/19/85	5050	54.34	9.0	62.6F	7.4	96	10	4.0	3.0	6	43	--	5.0	1.0	0	14	--	66	42	0.2	
AO		6950.00		BEAR R NR WHEATLAND				AO8AO													
10/25/85	5050		9.9	63	7.3	84	7.0	4.0	3.0	7	29	--	7.0	3.6	2	14	--	44	34	0.2	
11/28/84	5050		10.3	54	7.3	68	6.0	2.0	3.0	6	22	--	3.0	3.0	9	0	--	48	23	0.3	
12/20/84	5050	54.57	10.7	68	7.2	69	7.0	3.0	3.0	--	23	--	3.0	--	--	--	48	30	0.2		
01/03/85	5050	54.33	11.2	66	7.1	70	8.0	3.0	3.0	6	22	--	4.0	2.0	1	0	--	41	28	0.2	
02/19/85	5050		10.9	68	7.3	85	8.0	4.0	4.0	--	--	--	4.0	--	--	--	84	38	0.0		

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAR	G.W. O	ON SAT	TEMP	FIELD		MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				REMARKS		
					LABORATORY PH	EC	Ca	Mg	Na	K	CaCO3	SO4	CL	NO3	TURB	STO2	F	TDS		TH	SAP
AQ 4550.00																					
NEAR R NR WHEATLAND																					
40840 CONTINUED																					
03/28/44	5050			11.7	90	F 7.4	86	9.0	4.0	4.0	--	31	--	3.0	--	--	54	39	0.3		
1100	5050			10.4	10	C 7.6	86	4.5	3.3	1.7	--	16.2	--	0.8	--	--	8	0.2			
04/26/43	5050			10.9	64	F 7.4	101	12	5.0	5.0	--	36	--	3.0	--	--	66	50	0.3		
1045	5050			11.0	18	C 7.4	104	8.0	4.1	2.2	--	72	--	0.6	--	34	15	0.3			
03/30/45	5050			8.4	66	F 7.6	124	11	5.0	3.0	--	39	--	4.0	--	--	88	48	0.3		
0439	5050			9.0	19	C 8.2	113	9.5	4.1	2.2	--	76	--	1.1	--	14	9	0.3			
06/24/45	5050			6.1	76.0F	7.8	144	12	4.0	5.0	--	43	--	4.0	--	--	90	54	0.3		
0930	5050			9.6	24.4C	7.9	132	8.0	4.9	2.2	--	66	--	1.1	--	34	12	0.3			
09/19/43	5050			7.9	69.1F	8.0	180	14	8.0	7.0	1.0	61	16	6.0	4	0	104	68	0.4		
0949	5050			8.8	20.6C	8.2	160	7.0	8.6	3.0	0.3	1.22	3.3	1.7	0.1	--	80	7	0.4		
AQ 7125.01																					
AMERICAN R A 16TH ST RR																					
40941																					
10/10/44	2163			8.4	67.3F	7.1	42	4.0	1.0	2.0	0.6	16	2.0	1.0	--	--	35	14	0.2		
1100	5050			9.1	19.7C	7.2	49	2.0	0.8	0.9	0.2	32	0.4	0.3	--	8.2	24	0	0.0		
AQ 7140.10																					
AMERICAN R A 54CTD MT PLT																					
40981																					
10/04/44	5050			9.1	67.1F	7.1	100	--	--	2.0	--	--	--	1.0	--	--					
1130	5050			9.9	19.3C		42	--	--	0.9	--	--	--	0.3	--	24	--				
10/23/44	2163			6.8	62	F 7.1	47	--	--	--	--	--	--	--	--	--	36				
1045	5050			9.0	17	C		--	--	--	--	--	--	--	--	44	--				
11/08/44	5050			9.3	60.8F	7.0	50	--	--	2.0	--	--	--	0.6	--	--					
1123	5050			9.4	16.0C		51	--	--	0.9	--	--	--	--	114	--					
12/05/44	5050			11.2	51.4F	7.3	40	--	--	2.0	--	--	--	0.6	--	--					
1120	5050			10.1	11.0C		59	--	--	0.9	--	--	--	--	54	--					
02/13/45	5050			11.9	50.0F	7.3	57	--	--	2.0	--	--	--	0.6	--	--					
1320	5050			10.5	10.0C		63	--	--	0.9	--	--	--	--	24	--					
02/20/45	2163			11.9	61	F 7.6	60	--	--	--	--	--	--	--	--	--	41				
1415	5050			12.0	16	C		--	--	--	--	--	--	--	64	--					
03/13/45	5050			11.2	53.6F	7.3	65	--	--	2.0	--	--	--	0.6	--	--					
1215	5050			10.4	12.0C		63	--	--	0.9	--	--	--	--	54	--					
08/15/45	2163			7.8	72.0F	7.6	65	--	--	--	--	--	--	--	--	--	34				
1550	5050			8.9	22.2C			--	--	--	--	--	--	--	14	--					
09/26/45	5050			7.4	66.5F	7.2	56	5.0	2.0	2.0	0.6	21	2.0	1.0	1	0	35	20	0.2		
1015	5050			8.1	20.3C	6.1	52	2.5	1.6	0.9	0.2	42	0.4	0.3	0.0	24	25	0	0.0		
AQ 7140.01																					
AMERICAN R RL NE STP BL PL																					
40941																					
10/10/44	2163			4.6	66	F 7.1	60	4.0	1.0	2.0	0.6	16	2.0	1.0	--	--	34	14	0.2		
1100	5050			9.4	19	C 7.3	46	2.0	0.8	0.9	0.2	32	0.4	0.3	--	8.3	26	0	0.0		
AQ 7140.00																					
AMERICAN R RL NIMBUS DR																					
40981																					
10/10/44	2163			8.3	66.5F	7.0	40	4.0	1.0	2.0	0.6	16	2.0	1.0	--	--	34	14	0.2		
1130	4050	2250F		8.9	19.1C	7.6	54	2.0	0.8	0.9	0.2	32	0.4	0.3	--	8.4	26	0	0.0		
04/20/45	5050			10.1	129	F 7.1	60	6.0	2.0	3.0	--	24	--	0.6	--	--	44	23	0.3		
1145	5050			18.7	54	C 8.5	64	3.0	1.6	1.3	--	44	--	--	14	--	0	0.1			
09/26/45	5050			7.6	69.1F	7.0	57	2.0	2.0	3.0	0.7	23	2.0	1.0	1	0	34	13	0.4		
0945	5050			7.6	20.6C	8.3	51	1.0	1.6	1.3	0.2	44	0.4	0.3	0.0	--	25	0	0.0		
AQ 9220.00																					
BARKE9 SLU NR NOTIER																					
40240																					
11/13/44	5050			9.4	59.0F	8.1	360	19	21	36	2.2	126	40	22	4.0	0.3	223	134	1.4		
1114	4050	20		9.4	19.0C	8.2	372	22	40	1.73	1.37	0.6	43	0.2	0.6	2434	221	6	2.3		
11/28/44	5050			9.4	32.7F	7.5	260	11	0.0	3.0	2.3	40	22	18	9.7	0.3	174	84	1.6		
1105	5050	50		8.8	11.4C	8.2	265	9.5	7.4	1.31	0.6	1.38	46	1.1	1.6	0.34	144	0	1.0		
12/06/44	5050			8.8	51.4F	7.4	390	--	--	4.0	--	164	--	2.7	--	--					
1200	5050			8.0	11.0C	7.7	390	--	--	1.74	--	2.08	--	0.76	--	1934	7.1				
12/16/44	5050			9.6	42.8F	7.4	400	19	17	43	--	--	--	30	--	--	118	0.0			
1030	5050			7.7	6.0C		420	0.95	1.40	1.87	--	--	--	85	--	2434	--				
03/11/45	4050			9.8	56.3F	8.3	600	28	26	66	2.6	182	56	49	2.0	0.2	346	177	2.2		
1100	5050			9.4	13.3C	8.1	631	1.40	2.14	2.87	0.7	3.64	1.21	1.34	0.3	654	341	0	4.3		

TABLE G-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER L#	G.W. Q	DO SAT	TEMP	FIELD LABORATORY PH	IC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER EQUIVALENTS PER LITER				MILLIGRAMS PER LITER EQUIVALENTS PER LITER				REP	
							CA	MG	NA	K	CaCO3	SO4	CL	NO3	SiO2	Fe	TDS	TH		SAR
A1 L 101.3 139.0 LK ARITTON A FV XING																				
05/23/83	5050			9.4	67.3F	8.1	146	10	7.0	12	2.4	--	2.0	3.0	--	.1	--	34	0.0	
1930	5050	0		112	16.6C			.30	.38	.32	.06		.04	.08		24F			5	
								30	35	31	4									
09/20/85	5050			10.3	60.8F	8.2	167	11	7.0	12	2.4	--	3.0	3.0	--	.1	--	36	0.0	
1149	5050	0		114	16.0C			.33	.58	.52	.06		.06	.08		24F			5	
								32	34	30	4									
A1 R 102.8 159.1 180M CH RES																				
05/23/83	5050			9.2	62.8F	7.4	86	8.0	4.0	5.0	1.3	--	2.0	1.0	--	.0	--	36	0.0	
1030	5050	0		104	17.1C			.40	.33	.22	.03		.04	.03		14F			5	
								.41	.34	.22	.3									
09/20/85	5050			10.5	54.3F	7.7	94	8.0	4.0	5.0	1.4	--	2.0	1.0	--	.0	--	36	0.0	
0913	5050	0		108	12.3C			.40	.33	.22	.04		.04	.03		14F			5	
								.40	.33	.22	.4									
A1 1020.00 PIT R MR MONTGOMERY C																				
11/28/44	5050			11.5	45.5F	7.3	145	--	--	--	--	--	--	--	--	--	102			
0900	5050	7800		99	7.5C											94				
01/24/83	5050			13.0	44.6F	7.9	148	--	--	--	--	--	--	--	--	--				
1205	5050	7900		111	7.0C											24F				
03/13/83	5050			11.6	46.4F	7.7	152	--	--	--	--	--	--	--	--	--	64F			
1000	5050	6500		101	8.0C															
05/08/83	5050			10.4	58.1F	8.1	155	11	6.0	12	--	67	--	3.0	--	.0	--	147	52 0.7	
0850	5050	9000		103	14.5C	8.2	157	.33	.31	.33		1.34		.08		54		0	0.6	
								.33	.31	.33										
07/10/85	5050			9.5	67.1F	8.2	147	--	--	--	--	--	--	--	--	--				
0930	5050	4100		107	14.5C											24F				
09/11/83	5050			9.6	60.8F	7.7	143	--	--	--	--	--	--	--	--	--	14		109	
0913	5050	4400		100	16.0C															
A1 1680.00 PIT R MR CANAY																				
01/24/83	5050			2.88	12.8	32.0F	8.1	235	--	--	--	--	--	--	--	--				
0950	5050	149		101	0.0C											94F				
03/13/83	5050			3.48	7.4	44.6F	7.7	184	--	--	--	--	--	--	--	--	394F			
1225	5050	389		70	7.0C															
03/08/83	5050			2.68	6.9	50.0F	8.0	242	18	8.0	22	--	104	--	6.0	--	.2	78	1.1	
0630	5050	91		70	13.0C	8.2	246	.90	.33	.96		2.08		.17		214		0	1.4	
								.36	.26	.38									5	
07/10/83	5050			2.62	8.4	77.0F	8.4	270	--	--	--	--	--	--	--	--				
1225	5050	76		118	23.5C											234F				
09/18/83	5050			2.74	9.0	53.4F	8.0	291	--	--	--	--	--	--	--	--				
1205	5050	121		99	13.0C											324F				
A1 4400.00 PIT R SF MR LIKELY																				
05/07/85	5050			3.21	9.2	53.6F	8.4	84	--	--	--	--	--	--	--	--				
1445	5050	149		100	12.0C											74F				
09/13/85	5050			2.11	9.9	55.4F	8.2	120	11	4.0	9.0	--	61	--	2.0	--	.0	44	0.8	
1315	5050	33		110	13.0C	8.2	120	.35	.33	.35		1.22		.06		44		0	0.6	
								.43	.26	.31									5	
A2 L 043.2 225.0 SHASTA LK A DAM																				
10/24/84	5050			7.0			132	11	3.0	8.0	1.5	--	4.0	2.0	--	.0	--	0.0		
0930	5050							.55	.41	.35	.04		.08	.06		74F				
		426						.41	.30	.26	.3									
10/24/84	5050			8.2	61.3F	7.4	126	10	5.0	7.0	1.4	--	3.0	2.0	--	.0	--	0.0		
0930	5050	0		86	16.4C			.50	.41	.30	.04		.06	.08		14F			5	
								.40	.33	.24	.3									
05/24/85	5050			8.7	69.8F	7.9	113	10	5.0	7.0	1.2	--	4.0	2.0	--	.0	--	46	0.0	
0830	5050	0		100	21.0C			.50	.41	.30	.03		.08	.06		14F			5	
								.40	.33	.24	.2									
09/17/85	5050			8.8	68.4F	7.6	132	11	5.0	8.0	1.4	--	4.0	2.0	--	.0	--	46	0.0	
0900	5050	0		100	20.3C			.55	.41	.35	.04		.08	.06		14F			5	
								.41	.30	.26	.3									
A2 L 044.5 227.3 SHASTA LK A LITTLE SOUW C INLET																				
10/18/84	5050			8.3	64.0F	7.3	126	10	5.0	7.0	1.3	--	5.0	2.0	--	.0	--	0.0		
1100	5050	0		90	17.4C			.50	.41	.30	.03		.10	.06		14F			5	
								.40	.33	.24	.2									
10/18/84	5050			6.1	63.5F	7.3	125	10	5.0	7.0	1.3	--	6.0	2.0	--	.0	--	0.0		
1100	5050	79		87	17.3C			.50	.41	.30	.03		.12	.08		14F			5	
								.40	.33	.24	.2									

TABLE C-1 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER

[illegible]

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAT	G.W. O	NO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER						REM
						CA	MG	NA	K	CL	SO4	CO3	NO3	SiO2	SiO2	SiO2	SiO2	SiO2	SiO2	
A2 0130.00 SONIAW C L A SMASTA LW A2000 CONTINUED																				
08/21/85 0855	5050 5050	5F	9.1 102	67.1F 19.5C	3.5 3.5	315 347	12 .60 43	7.0 .58 41	5.0 .22 16	-- -- --	0 .00 --	-- -- --	1.0 .03 --	-- -- --	24 -- --	-- -- --	-- -- --	59 59	0.0 0.0	5
08/24/85 1120	5050 5050	3E	9.7 103	62.6F 17.0C	3.6 --	248 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	84F --	-- --	-- --	-- --	-- --	--
A2 1010.00 SACRAMENTO R A KESWICK A1900																				
10/23/84 0930	5050 5050	5000	9.4 92	57.2F 14.0C	7.3 --	133 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	14F --	-- --	-- --	-- --	-- --	--
11/21/84 1030	5050 5050	14530	9.1 86	53.6F 12.0C	7.0 --	111 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	34F --	-- --	-- --	-- --	-- --	--
12/18/84 1355	5050 5050	12000	11.3 99	48.2F 9.0C	7.2 --	116 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	14F --	-- --	-- --	-- --	-- --	--
01/16/85 1105	5050 5050	6000	11.6 102	48.2F 9.0C	7.2 --	115 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	24F --	-- --	-- --	-- --	-- --	--
02/14/85 1135	5050 5050	4043	11.8 102	47.3F 8.5C	7.2 --	121 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	14F --	-- --	-- --	-- --	-- --	--
03/12/85 1050	5050 5050	5000	12.3 108	48.2F 9.0C	7.3 --	127 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	24F --	-- --	-- --	-- --	-- --	--
04/17/85 1105	5050 5050	6000	11.7 103	48.2F 9.0C	7.4 --	102 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	24F --	-- --	-- --	-- --	-- --	--
05/23/85 1055	5050 5050		10.9 102	53.6F 12.0C	7.4 8.0	118 137	11 .55 42	5.0 .41 31	8.0 .35 27	-- -- --	9.8 1.16 --	-- -- --	3.0 .08 --	-- -- --	0 24 --	-- -- --	-- -- --	4.8 0	0.5 0.5	5
06/14/85 0930	5050 5050	10750	10.8 104	55.4F 13.0C	7.4 --	108 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	24F --	-- --	-- --	-- --	-- --	--
07/25/85 1055	5050 5050	13200	9.9 97	57.2F 14.0C	7.5 --	129 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	14F --	-- --	-- --	-- --	-- --	--
08/21/85 0935	5050 5050	10650	9.8 92	53.6F 12.0C	7.5 --	147 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	24F --	-- --	-- --	-- --	-- --	--
09/24/85 1045	5050 5050	4250	10.1 103	60.8F 16.0C	7.2 --	104 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	24F --	-- --	-- --	-- --	-- --	--
A2 1300.00 SACRAMENTO R A DELTA A2000																				
10/23/84 0945	5050 5050		4.03 275	11.5 105	8.3 10.0C	155 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	24F --	-- --	-- --	-- --	-- --	--
11/26/84 1110	5050 5050	5.51 1030	12.7 105	42.6F 6.0C	7.4 --	112 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	14F --	-- --	-- --	-- --	-- --	--
12/17/84 1200	5050 5050	4.34 866	12.6 102	41.0F 5.0C	7.9 --	117 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	14F --	-- --	-- --	-- --	-- --	--
01/08/85 1030	5050 5050	4.91 597	12.6 105	42.8F 6.0C	7.8 --	124 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	14F --	-- --	-- --	-- --	-- --	--
02/27/85 1425	5050 5050	5.08 723	12.4 108	46.4F 8.0C	8.0 --	117 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	14F --	-- --	-- --	-- --	-- --	--
03/12/85 1015	5050 5050	5.01 695	12.0 105	46.4F 8.0C	7.7 --	126 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	14F --	-- --	-- --	-- --	-- --	--
04/17/85 0910	5050 5050	6.55 1790	11.5 103	48.2F 9.0C	7.8 --	96 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	14F --	-- --	-- --	-- --	-- --	--
05/09/85 0720	5050 5050	5.24 812	11.0 103	51.8F 11.0C	7.7 --	110 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	14F --	-- --	-- --	-- --	-- --	--
06/13/85 0845	5050 5050	4.14 305	9.3 103	66.2F 19.0C	8.2 8.0	128 134	13 .65 45	6.0 .49 34	7.0 .30 21	-- -- --	54 1.08 --	-- -- --	3.0 .08 --	-- -- --	0 14 --	-- -- --	-- -- --	57 3	0.4 0.4	--
07/09/85 0920	5050 5050	3.78 192	9.1 107	71.6F 22.0C	8.1 --	159 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	24F --	-- --	-- --	-- --	-- --	--
08/19/85 1105	5050 5050	3.82 221	9.9 110	66.2F 19.0C	8.2 --	157 --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	24F --	-- --	-- --	-- --	-- --	--

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

TIME	SAMPLED LAB	G.W. O	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE CACO3				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE SO4 CL NO3				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE F394 SI02 TDS SIM NCH SAR ASAR				REM					
						C4	MR	NA	K	CACO3	SO4	CL	NO3	F394	SI02	TDS SIM	NCH	SAR	ASAR								
A2		SACRAMENTO R A DELTA													A2090 CONTINUED												
09/10/85 0900	5050 5050	4.35 2.45	10.1 9.4	55.4F 19.0C	7.9	150	--	--	--	--	--	--	--	--	--	2AF	--										
A2		MCCLUDD R AR SHASTA LK													A2241												
10/23/84 0830	5050 5050	504	10.6 9.4	51.4F 11.0C	8.0 4.0	205 204	33 1.65	3.0 80	4.4C 17	-- 1.90	95	--	1.0 .03	--	.0 2A	--		95 0	0.2 0.3		5						
11/26/84 1010	5050 5050	706	11.9 16.4	46.4F 8.0C	7.6	142	--	--	--	--	--	--	--	--	2AF	--											
12/17/84 1655	5050 5050	512	12.5 101	41.0F 5.0C	8.2 7.4	116 115	15 .75	3.0 .25	4.0 .17	-- 1.90	49	--	1.0 .03	--	.0 1A	--		50 1	0.2 0.2		5						
01/08/85 0935	5050 5050	367	12.5 16.4	42.8F 6.0C	8.2	122	--	--	--	--	--	--	--	--	1AF	--				5							
02/14/85 0925	5050 5050	386	12.0 100	42.8F 6.0C	7.8	120	--	--	--	--	--	--	--	--	1AF	--				5							
03/12/85 0925	5050 5050	434	12.3 105	44.6F 7.0C	7.5	126	--	--	--	--	--	--	--	--	1AF	--				5							
04/15/85 1015	5050 5050	410	10.5 9.4	51.8F 11.0C	7.4	123	--	--	--	--	--	--	--	--	2AF	--				5							
05/09/85 0830	5050 5050	314	9.9 93	51.8F 11.0C	7.9	128	--	--	--	--	--	--	--	--	2AF	--				5							
06/13/85 0745	5050 5050	292	9.6 102	62.6F 17.0C	7.9 7.4	117 120	10 .50	7.0 .58	8.0 .35	-- 1.12	56	--	4.0 .11	--	.1 1A	--		94 0	0.3 0.5		5						
07/09/85 0820	5050 5050	266	9.6 102	62.6F 17.0C	7.9	126	--	--	--	--	--	--	--	--	2AF	--											
08/19/85 1010	5050 5050	266	10.2 104	59.0F 15.0C	7.9	116	--	--	--	--	--	--	--	--	2AF	--											
09/10/85 0800	5050 5050	336	10.6 101	51.8F 11.0C	7.9	118	--	--	--	--	--	--	--	--	2AF	--											
A2		SOUW C AR SHASTA LK													A2240												
10/24/84 1100	5050 5050	12.6 112	47.5F 8.6C	7.3	199	39 1.05	4.0 .33	4.4C .17	.4 .01	--	17 .35	1.0 .03	--	.0 1AF	--		114	0.0		5							
A3 R 056.1		WHISKEYTOWN RES A DM													A1083												
05/21/85 0930	5050 5050	9.2 9.9	62.6F 17.0C	7.4	81	5.0 .25	6.0 .49	2.6C .09	.4 .01	--	3.0 .06	1.0 .03	--	.0 1AF	--		37	0.0		5							
09/23/85 0800	5050 5050	8.9 9.7	64.0F 17.0C	7.4	67	5.0 .25	6.0 .49	3.6C .13	.3 .01	--	2.0 .04	1.0 .03	--	.0 2AF	--		37	0.0		5							
A3		STONY C BL BLACK BUTTE DM NR OPLAND													A1340												
10/26/84 0935	5050 5050	2.54 56	10.0 100	59.0F 15.0C	6.1	396	--	--	--	--	--	--	--	2AF	--												
11/19/84 0945	5050 5050	2.29 31	10.8 9.4	51.8F 11.0C	6.1	364	--	--	--	--	--	--	--	3AF	--												
12/17/84 1300	5050 5050	5.34 972	12.6 110	48.2F 9.0C	7.9	326	--	--	--	--	--	--	--	2AF	--												
01/22/85 1114	5050 5050	3.49 52	12.5 107	46.4F 8.0C	8.1	330	--	--	--	--	--	--	--	5AF	--												
02/20/85 1003	5050 5050	2.52 46	11.9 101	46.4F 8.0C	8.1	316	--	--	--	--	--	--	--	21AF	--												
03/19/85 1040	5050 5050	2.28 26	11.5 106	52.7F 11.5C	7.9	330	--	--	--	--	--	--	--	11AF	--												
04/25/85 0930	5050 5050	3.16 123	10.9 16.4	55.4F 13.0C	8.0	352	--	--	--	--	--	--	--	21AF	--												
05/22/85 1405	5050 5050	7.99 9.4	10.2 117	71.6F 22.0C	4.1 7.4	320 334	33 1.65	13 1.07	15 .32	-- 1.18	2.36	--	21 .59	--	.1 33A	--		136 16	0.6 1.0								

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAR	G.W. D	OD SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				TDS SILH	TH NCH	SAR ASAP	RFH
						CA	MG	NA	K	PERCENT REACTANCE VALUE				MAG3	S04	CL	H03				
										CAC03	S04	CL	H03								
.....																					
A3 1110.00 STONY C BL BLACK RUTTE DM NR CRIANO A1340 CONTINUED																					
06/24/85	5050	4.4R	9.1	71.6F	8.1	345	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0905	5050	193	103	22.0C																	
07/23/85	5050	3.43	8.5	77.0F	8.0	366	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0915	5050	184	103	25.0C																	
08/26/85	5050	2.79	8.2	75.2F	7.9	372	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0850	5050	80	98	24.0C																	
09/13/85	5050	3.30	8.0	68.0F	8.1	382	33	18	20	151	--	20	--	43	--	--	--	--	197	0.7	
0840	5050	32	88	20.0C	8.6	386	1.65	1.48	.87	3.02	--	.56	--	1004	--	--	--	--	6	1.9	5
						41	37	22													
A3 1253.00 STONY C AR GRINOSTONE C A1401																					
10/26/84	5050	11.6	66.2F	8.1	419	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1020	5050	2E	127	19.0C																	
11/19/84	5050	11.1	49.1F	7.8	191	25	4.0	6.6	--	58	--	5.0	--	.0	--	--	--	--	79	0.3	
1030	5050	130E	99	9.5C	7.7	196	1.25	.33	24	1.16	--	.14	--	244	--	--	--	--	21	0.4	5
						6A	18														
12/17/84	5050	12.4	49.1F	8.3	299	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1410	5050	600E	110	9.5C																	
01/22/85	5050	12.5	50.0F	8.2	480	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1200	5050	30E	113	10.0C																	
02/20/85	5050	11.6	50.0F	7.9	214	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1055	5050	70E	104	10.0C																	
03/19/85	5050	11.5	59.9F	8.3	506	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1130	5050	30E	117	15.5C																	
04/25/85	5050	11.7	59.0F	8.3	381	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1025	5050	40E	118	15.0C																	
05/22/85	5050	9.4	70.7F	8.4	299	29	12	16	--	115	--	21	--	.4	--	--	--	--	122	0.6	
1455	5050	100E	108	21.5C	8.1	324	1.45	.99	.70	2.30	--	.59	--	134	--	--	--	--	7	1.1	5
						6A	32														
06/24/85	5050	9.1	71.6F	8.2	361	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1000	5050	45E	105	22.0C																	
07/23/85	5050	8.9	78.8F	8.2	369	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1000	5050	200E	111	26.0C																	
08/26/85	5050	9.3	73.4F	8.6	370	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0940	5050	130E	110	25.0C																	
09/13/85	5050	10.7	66.2F	8.3	393	31	23	21	--	166	--	20	--	.3	--	--	--	--	172	0.7	
0930	5050	5E	117	19.0C	8.6	409	1.95	1.69	.91	3.32	--	.56	--	234	--	--	--	--	6	1.4	5
						36	43	21													
A3 1302.00 GRINOSTONE C NR ELK C A1401																					
10/26/84	5050	9.8	66.2F	8.1	530	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1015	5050	5E	107	19.0C																	
11/19/84	5050	11.5	48.2F	7.6	187	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1015	5050	100E	101	9.0C																	
12/17/84	5050	11.9	45.5F	7.6	208	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1340	5050	360E	101	7.5C																	
01/22/85	5050	12.3	45.5F	8.0	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1145	5050	100E	104	7.5C																	
02/20/85	5050	11.5	46.4F	7.4	201	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1045	5050	125E	99	8.0C																	
03/19/85	5050	10.5	57.2F	8.0	248	32	6.0	9.6	--	43	--	7.0	--	.1	--	--	--	--	105	0.4	
1120	5050	40E	104	14.0C	8.3	259	1.60	.49	.35	1.66	--	.20	--	24	--	--	--	--	22	0.6	5
						65	20	16													
04/25/85	5050	10.5	55.4F	8.0	204	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1010	5050	60E	101	13.0C																	
05/22/85	5050	11.3	61.5F	8.2	230	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1450	5050	25E	106	27.5C																	
06/24/85	5050	9.1	73.4F	8.2	310	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0950	5050	10E	107	23.0C																	
07/23/85	5050	9.6	84.2F	8.4	337	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1010	5050	12A	128	29.0C																	

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAR	G.W. Q	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER							REM
							CA	MG	NA	K	CACT3	SO4	CL	NO3	THIOB	SiO2	TDS SUM	TH MCM	SAR ASAR			
43 1302.00 GRINDSTONE C NR ELK C																						
											41431 CONTINUED											
08/26/85 0930	5050 4050	1E	9.8 120	77.0F 25.0C	8.1	3A7	--	--	--	--	--	--	--	--	--	3AF	--	--	--	--	--	--
09/13/85 0920	5050 5050	2E	9.8 109	88.0F 20.0C	8.2	418	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--	--	--
43 3110.00 ELDER C NR PASSENTA																						
											41681											
04/29/85 1145	5050 5050	4A	10.5 164	57.2F 14.0C	8.2	275	--	--	--	--	--	--	--	--	--	2AF	--	--	--	--	--	--
09/13/85 1045	5050 5050	1.20 2.3	10.6 117	67.1F 19.5C	8.4 8.5	780 815	4.3 2.15	32 34	70 3.05	-- 39	104 3.28	-- 4.00	1.2 14	-- 14	-- 14	-- 14	-- 14	-- 14	239 75	2.0 4.0	-- --	S
43 4130.00 CLEAR C NR IGO																						
											41740											
05/23/85 1025	5050 4050	5A 95	9.6 95	57.2F 14.0C	7.4 6.7	221 220	2.1 1.05	21 47	9.0 7.4	1.4 3.9	90 1.80	10 21	7.0 2.20	1.1 1.00	1.0 14	-- 14	135 111	90 0	0.4 0.4	-- --	-- --	S
09/24/85 1000	5050 5050	2.62 5.0	10.5 108	60.8F 16.0C	7.5 8.2	103 101	6.0 3.30	6.0 4.4	5.0 2.2	-- 22	42 8.4	-- 1.1	4.0 14	-- 14	-- 14	-- 14	-- 14	40 0	0.3 0.3	-- --	-- --	S
44 3110.00 BUTTE CR NR CHICO																						
											40700											
11/30/84 1010	5050 5050	2.30 424	12.7 109	44.6F 7.3C	7.3	90	--	--	--	--	--	--	--	--	--	3AF	--	--	--	--	--	S
01/29/85 1600	5050 5050	1.8A 145	12.4 98	41.0F 5.0C	7.8 8.1	127 116	11 5.9	5.0 4.1	5.0 2.2	-- 1.0	53 1.08	-- 1.0	1.0 0.3	-- 24	-- 24	-- 24	-- 24	48 0	0.3 0.3	-- --	-- --	S
03/29/85 1100	5050 5050	2.26 412	12.5 101	42.8F 6.0C	7.3 8.4	96 90	12 6.0	6.0 4.9	4.0 1.7	-- 13	46 9.2	-- 1.0	1.0 0.3	-- 14	-- 14	-- 14	-- 14	54 9	0.2 0.2	-- --	-- --	S
05/30/85 1035	5050 5050	1.94 2.1	11.1 53	13.0F 10.5C	7.8	93	--	--	--	--	--	--	--	--	--	5AF	--	--	--	--	--	S
07/31/85 1220	5050 5050	1.60 125	9.7 167	68.0F 20.0C	8.2	105	--	--	--	--	--	--	--	--	--	1AF	--	--	--	--	--	S
09/27/85 1015	5050 5050	0.43 98	10.1 103	60.8F 16.0C	7.9	131	--	--	--	--	--	--	--	--	--	5AF	--	--	--	--	--	S
44 2111.00 CHICO C RIR NR CHICO																						
											41380											
01/28/85 1645	5050 5050	6A 117	14.1 117	44.6F 7.0C	8.0	104	--	--	--	--	--	--	--	--	--	2AF	--	--	--	--	--	S
03/29/85 1230	5050 5050	1.73 136	12.8 109	46.4F 8.0C	7.9 8.8	129 134	13 6.5	7.0 5.8	8.0 3.5	-- 22	58 1.12	-- 3.0	1.0 0.8	-- 14	-- 14	-- 14	-- 14	62 6	0.4 0.5	-- --	-- --	S
05/30/85 1120	5050 5050	0.67 29	10.7 55	17.0F 8.3C	8.3	204	--	--	--	--	--	--	--	--	--	3AF	--	--	--	--	--	S
07/31/85 1255	5050 5050	0.65 21	9.1 108	73.4F 23.0C	8.2	400	--	--	--	--	--	--	--	--	--	11AF	--	--	--	--	--	S
09/27/85 1100	5050 5050	0.67 23	9.8 106	66.2F 19.0C	8.2	227	--	--	--	--	--	--	--	--	--	2AF	--	--	--	--	--	S
44 4050.01 PAYNES C NR BEN BLUFF																						
											41740											
10/26/84 0900	5050 5050	4.0E 47	9.9 15.0C	59.0F	7.3	217	--	--	--	--	--	--	--	--	--	2AF	--	--	--	--	--	S
03/19/85 0910	5050 5050	2.8E 104	10.8 102	55.4F 13.0C	7.3 8.4	171 179	12 4.0	8.0 5.8	12 5.2	-- 24	76 1.52	-- 1.7	1.0 14	-- 14	-- 14	-- 14	-- 14	63 0	0.7 0.8	-- --	-- --	S
44 7110.00 BATTLE C NR COTTONWOOD																						
											41740											
10/24/84 1030	5050 5050	1.41 343	11.4 167	53.4F 12.0C	7.7 7.8	142 148	10 5.0	7.0 5.8	9.0 3.5	-- 27	88 1.32	-- 3.0	1.0 0.8	-- 24	-- 24	-- 24	-- 24	54 0	0.5 0.6	-- --	-- --	S
02/14/85 1220	5050 5050	1.40 344	11.3 101	50.0F 10.0C	7.7 8.1	142 143	10 5.0	7.0 5.8	8.0 3.5	-- 24	65 1.30	-- 2.0	1.0 0.8	-- 24	-- 24	-- 24	-- 24	54 0	0.5 0.5	-- --	-- --	S
44 8111.00 CCW C NR PALO CEORO																						
											41740											
05/23/85 1304	5050 5050	12A 120	9.7 120	78.6F 24.0C	8.1 7.0	133 136	12 8.0	5.0 4.1	7.0 3.3	-- 23	47 1.14	-- 1.1	1.0 24	-- 24	-- 24	-- 24	-- 24	50 0	0.4 0.4	-- --	-- --	S
09/24/85 1714	5050 5050	5 122	10.8 122	71.6F 22.0C	8.3 8.3	177 174	13 7.5	7.0 5.8	16 3.3	-- 25	72 1.44	-- 1.4	1.0 24	-- 24	-- 24	-- 24	-- 24	66 0	0.5 0.7	-- --	-- --	S

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER L&R	G.W. O	NO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				S&P	REF	
						CA	MG	NA	K	CaCO3	SO4	CL	NO3	SiO2	F	7NS	TH			S&P
A5 3420.00 FEATHER R HF MR PORTOLA A11C2																				
04/23/85	5050		8.4	56	F 7.6	121	16	6.0	9.0	--	80	--	2.0	--	--	--	101	5	0.5	E
1115	5050		95	13	C 7.5	128	48	0.40	35	1.20	--	.06	--	7A	--	--	--	5	0.6	
09/18/85	5050	1.75	7.8	52.2F	7.6	119	11	3.0	5.0	1.1	48	2.0	1.0	.4	.0	--	68	40	0.3	T
1115	5050		84	11.2C	8.0	103	.55	.25	.22	.03	.96	.04	.03	.01	--	--	52	0	0.3	
							52	24	21	3	.92	4	3	1						
A6 4700.00 YIN&R (SOUTH) NR CISCO A10C4																				
04/23/85	5050		10.2	45	F 7.0	45	4.0	1.0	6.0	--	9	--	6.0	--	--	--	41	14	0.7	E
1330	5050		103	7	C 7.6	45	.20	.08	.22	.18	--	.17	--	1A	--	--	--	5	0.2	
							37	15	48											
09/18/85	5050	2.38	7.6	56.1F	7.4	26	2.0	0	2.0	.4	8	1.0	2.0	.1	.0	--	16	5	0.4	T
1330	5050		88	13.4C	8.0	24	.10	.00	.09	.01	.16	.02	.06	.00	--	--	12	0	0.3	
							50	0	42	5	.67	8	25	0						
A7 4550.00 AMERICAN R SF MR KYBUR2 A06A5																				
04/21/85	5050		10.6	41	F 7.2	33	3.0	1.0	3.0	--	11	--	3.0	--	--	--	35	12	0.4	E
1630	5050		94	5	C 6.7	34	.15	.13	.13	.22	--	.08	--	14	--	--	--	1	0.1	
							42	22	36											
09/17/85	5050	1.08	8.7	51.8F	7.4	44	4.0	1.0	3.0	.8	12	1.0	5.0	.4	.0	--	36	14	0.3	E
0730	5050		90	11.0C	7.4	46	.20	.08	.13	.02	.24	.02	.14	.01	--	--	22	2	0.1	T
							47	10	30	5	.90	5	34	2						
A7 5250.10 MURICOM R A ELLICOTT RD A06C3																				
05/30/85	2163		8.9	93	F 7.1	57	--	--	--	--	--	--	--	--	--	--	40			
1045	5050	200E	92	12	C										0A	--	--			
A8 L 857.9 240.6 CLEAR LK LO ARM CL3 A0402																				
10/23/84	5050		11.4	57.9F	7.9	230	21	14	1.0	1.8	--	--	--	--	--	--	110	0.0		
1100	5050		116	14.4C			1.05	1.15	.44	.05	--	--	--	--	--	--				
		0					39	43	16	2										5
11/20/84	5050		9.4	48.6F	7.3	255	21	14	1.0	1.8	--	--	--	--	--	--	110	0.0		
1415	5050		89	9.2C			1.05	1.15	.44	.05	--	--	--	--	--	--				
		0					39	43	16	2										5
01/24/85	5050		9.0	45.1F	7.2	261	21	14	1.0	1.8	--	--	--	--	--	--	110	0.0		
1045	5050		78	7.3C			1.05	1.15	.44	.05	--	--	--	--	--	--				
		0					39	43	16	2										5
02/21/85	5050		9.8	45.5F	7.3	259	22	15	1.0	1.8	--	--	--	--	--	--	117	0.0		
1100	5050		85	7.5C			1.10	1.23	.46	.05	--	--	--	--	--	--				
		0					34	43	17	2										5
03/19/85	5050		9.4	49.6F	7.2	252	22	15	1.0	1.8	--	10	5.0	--	1.0	--	138	117	0.0	
1100	5050		86	9.8C			1.10	1.23	.46	.05	--	.21	.14	--	54F	--				5
		0					38	43	17	2										
04/25/85	5050		10.0	50.2F	7.9	257	20	14	1.0	1.7	--	--	--	--	--	--	108	0.0		
1245	5050		103	19.1C			1.00	1.15	.44	.04	--	--	--	--	--	--				
		0					38	44	17	2										5
05/30/85	5050		10.4	65.8F	8.1	252	20	14	1.0	1.7	--	--	--	--	--	--	108	0.0		
1050	5050		116	18.8C			1.00	1.15	.44	.04	--	--	--	--	--	--				
		0					38	44	17	2										5
06/27/85	5050		8.3	78.1F	7.5	260	20	14	1.0	1.7	--	--	--	--	--	--	108	0.0		
1130	5050		105	25.0C			1.00	1.15	.44	.04	--	--	--	--	--	--				
		0					38	44	17	2										5
07/23/85	5050		8.9	79.5F	8.0	268	21	15	1.0	1.9	--	11	6.0	--	.9	--	143	114	0.0	
1230	5050		114	26.4C			1.05	1.23	.46	.05	--	.23	.17	--	24F	--				5
		0					37	44	17	2										
08/28/85	5050		10.3	76.1F	8.1	273	23	15	1.0	2.1	--	--	--	--	--	--	119	0.0		
1000	5050		128	24.5C			1.15	1.23	.46	.05	--	--	--	--	--	--				
		0					40	42	16	2										5
09/26/85	5050		10.0	71.2F	7.9	286	24	16	1.0	2.0	--	--	--	--	--	--	126	0.0		
0830	5050		118	21.8C			1.20	1.32	.52	.05	--	--	--	--	--	--				
		0					39	43	17	2										5
A8 L 900.7 241.7 CLEAR LK 23 OAKS ARM CL4 A0402																				
10/23/84	5050		11.1	57.4F	8.0	222	20	14	1.0	1.8	--	--	--	--	--	--	108	0.0		
1145	5050		112	14.1C			1.00	1.15	.44	.05	--	--	--	--	--	--				
		0					38	44	17	2										5
11/20/84	5050		10.1	48.2F	7.8	245	20	14	9.0	1.7	--	--	--	--	--	--	108	0.0		
1330	5050		91	9.0C			1.00	1.15	.44	.04	--	--	--	--	--	--				
		0					39	45	15	2										5
12/18/84	5050		10.0	46.6F	8.1	237	20	14	9.0	1.7	--	--	--	--	--	--	108	0.0		
1200	5050		88	8.1C			1.00	1.15	.44	.04	--	--	--	--	--	--				
		0					39	45	15	2										5
01/24/85	5050		9.8	45.5F	7.3	242	20	13	9.0	1.6	--	--	--	--	--	--	104	0.0		
1130	5050		83	7.5C			1.00	1.07	.35	.04	--	--	--	--	--	--				
		0					40	43	16	2										5
02/21/85	5050		9.1	45.0F	7.5	244	21	14	1.0	1.6	--	--	--	--	--	--	110	0.0		
1140	5050		79	7.2C			1.05	1.15	.44	.04	--	--	--	--	--	--				
		0					39	43	16	1										5
03/19/85	5050		10.8	48.7F	7.8	242	20	14	1.0	1.5	--	11	5.0	--	.9	--	120	108	0.0	
1145	5050		94	9.3C			1.00	1.15	.44	.04	--	.24	.14	--	54F	--				5
		0					38	44	17	2										
04/25/85	5050		9.8	50.9F	8.2	245	20	14	1.0	1.6	--	--	--	--	--	--	108	0.0		
1320	5050		102	15.5C			1.00	1.15	.44	.04	--	--	--	--	--	--				
		0					38	44	17	2										5

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAR	F.L. O	ON SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE CACC3 504 CL NOS				MILLIGRAMS PER LITER TDS TH SAR REM			
						Ca	Mg	Na	K					TDS	TH	SAR	REM
AR L 900.7 241.7 CLEAR LK 23 OAKS ARM CL4																	
A0402 CONTINUED																	
05/30/85	5050			9.7	65.8F	246	20	14	1C	1.5	--	--	--	108	0.0		
1140	5050			108	15.0F		1.00	1.15	.44	.04	--	--	--				
		G			34	44			17	2							\$
06/27/85	4050			7.8	77.0F	254	21	15	1C	1.8	--	--	--	114	0.0		
1215	4050			98	25.0C		1.05	1.23	.44	.05	--	--	--				
		0					38	44	16	2							\$
07/23/85	5050			8.9	80.6F	258	22	14	11	1.7	--	--	--	144	113	0.0	
1415	5050			116	27.0C		1.10	1.15	.46	.04	--	--	--				
		0					40	42	17	1							\$
08/26/85	5050			11.7	76.1F	260	23	15	11	1.9	--	--	--	119	0.0		
1045	5050			145	24.5C		1.15	1.25	.44	.05	--	--	--				
		0					40	42	16	2							\$
09/26/85	5050			13.7	71.6F	269	24	16	12	2.0	--	--	--	126	0.0		
0015	5050			163	22.0C		1.20	1.32	.52	.05	--	--	--				
		0					49	43	17	2							\$
AR L 902.7 254.7 1 CLEAR LK A LAKEPORT																	
A0402																	
10/25/84	5050			19.1	86.2F	235	--	--	--	--	--	--	--				
1705	5050			214	19.0C						--	--	--				
														234F			
12/08/84	5050			10.7	86.4F	227	--	--	--	--	--	--	--				
0825	5050			94	8.0C						--	--	--				
														224F			
02/07/85	5050			10.2	86.4F	225	18	12	9C	--	--	--	--	94	0.4		
0765	5050			90	8.0C	233	.90	.99	.33	.04	--	--	--	0	0.6		
							39	43	17								\$
04/04/85	5050			11.8	82.6F	220	--	--	--	--	--	--	--				
1440	5050			127	17.0C						--	--	--				
														74F			
06/07/85	5050			6.9	88.2F	237	--	--	--	--	--	--	--				
0645	5050			77	19.0C						--	--	--				
														174F			
08/08/85	5050			8.6	73.6F	265	--	--	--	--	--	--	--				
0715	5050			80	23.0C						--	--	--				
														44F			
AR L 903.8 251.9 CLEAR LK 15-11P ARM CL-1																	
A0402																	
10/23/84	5050			9.9	57.4F	210	20	13	9C	1.8	--	--	--	104	0.0		
1015	5050			100	14.1C		1.00	1.07	.33	.05	--	--	--				
		0					40	43	16	2							\$
11/20/84	5050			10.5	47.3F	229	20	13	9C	1.6	--	--	--	104	0.0		
1200	5050			94	8.5C		1.00	1.07	.33	.04	--	--	--				
		0					40	43	16	2							\$
12/18/84	5050			9.8	45.0F	225	19	13	9C	1.7	--	--	--	101	0.0		
1030	4050			85	7.2C		.95	1.07	.33	.04	--	--	--				
		0					39	44	16	2							\$
01/24/85	5050			9.9	45.5F	231	19	13	9C	1.5	--	--	--	101	0.0		
1230	5050			86	7.5C		.95	1.07	.33	.04	--	--	--				
		0					39	44	16	2							\$
02/21/85	5050			9.6	46.2F	217	14	13	9C	1.5	--	--	--	98	0.0		
1230	5050			84	7.9C		.90	1.07	.33	.04	--	--	--				
		0					38	45	16	2							\$
03/19/85	5050			9.6	51.8F	211	19	13	9C	1.5	--	--	--	130	101	0.0	
1015	5050			91	11.0C		.95	1.07	.33	.04	--	--	--				
		0					39	44	16	2							\$
04/25/85	5050			9.3	57.9F	232	19	13	9C	1.6	--	--	--	101	0.0		
1045	5050			95	14.4C		.95	1.07	.33	.04	--	--	--				
		0					39	44	16	2							\$
05/30/85	5050			8.1	67.3F	226	21	14	1C	1.7	--	--	--	110	0.0		
1000	4050			92	19.6C		1.05	1.15	.44	.04	--	--	--				
		0					39	43	16	1							\$
06/27/85	5050			8.0	76.3F	245	20	14	1C	1.7	--	--	--	108	0.0		
1000	5050			100	24.6C		1.00	1.15	.44	.04	--	--	--				
		0					38	44	17	2							\$
07/24/85	4050			8.0	82.0F	255	22	14	11	1.8	--	--	--	144	113	0.0	
1030	5050			105	27.0C		1.10	1.15	.46	.05	--	--	--				
		0					40	41	17	2							\$
08/28/85	4050			9.8	78.4F	245	24	15	11	2.0	--	--	--	122	0.0		
1115	4050			122	25.0C		1.20	1.23	.44	.05	--	--	--				
		0					41	42	16	2							\$
09/28/85	5050			9.9	71.4F	269	24	16	11	1.9	--	--	--	126	0.0		
1000	5050			117	21.9C		1.20	1.32	.44	.05	--	--	--				
		0					39	43	16	2							\$
AR 113.00 CACHE R & RUMSEY																	
A0200																	
04/09/85	5050			11.42	8.4	70	24	26	3C	--	--	--	--	249	167	1.0	
1530	5050			95	21	8.7	451	1.20	2.14	1.31	--	--	--	1	2.0		
							26	48	28								
09/24/85	5050			11.13	7.6	67.5F	240	24	19	2.2	--	--	--	209	143	0.8	
0845	5050			84	19.7C	266	1.30	1.94	.54	.06	--	--	--	195	0	1.5	
							34	40	25	2							

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER L&N	G.H. O	NO SAT	TEMP	FIELD LABORATORY PH	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE	MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER					MILLIGRAMS PER LITER					REP					
							CA	MG	NA	K	CACO3	SO4	CI	NO3	TUOR	SIO2		8	F	TDS SMM	TH MCM	SAR 65AR
AR 1250.00						AR490																
10/25/84	5050	0.51	10.3	62.6F	8.7	3120	4.0	124	496	--	632	--	6.68	--	1.4	--	--	--	520	9.4		
1620	5050	0	100	17.0C	8.7	3140	1.20	12.20	21.32	--	12.63	--	18.64	--	1A	--	--	--	0	26.4		5
12/06/84																						
1040	5050	1.56	11.4	44.6F	8.3	1300	--	--	--	--	--	--	--	--	--	--	--	--				
02/07/85	5050	0.94	9.5	44.6F	8.4	2110	--	--	--	--	--	--	--	--	--	--	--	--				
0850	5050	0.8	80	7.0C											3AF	--	--	--				
04/16/85																						
1415	5050	1.02	9.7	68.0F	8.4	1710	--	--	--	--	--	--	--	--	3AF	--	--	--				
06/07/85	5050	0.64	9.2	75.2F	8.4	2140	--	--	--	--	--	--	--	--	3AF	--	--	--				
0900	5050	0.5	111	24.0C																		
08/08/85																						
1005	5050	0.38	8.4	71.6F	8.8	3370	1.8	133	543	--	682	--	701	--	14.0	--	--	--	592	9.7		
		0.8	22.0C	8.8	3530	1.10	10.94	23.62	31	67	19.63	--	22.91	--	0A	--	--	--	0	24.1		5
AR 1350.00						AR401																
10/25/84	5050	6.7	10.0	64.4F	8.0	273	22	15	11	--	124	--	6.0	--	8.8	--	--	--	117	0.4		
1405	5050		110	14.0C	7.8	273	1.10	1.23	4.4F	--	2.48	--	0.17	--	8A	--	--	--	0	0.7		5
12/06/84																						
0930	5050	8.0	8.7	46.4F	7.3	250	--	--	--	--	--	--	--	--	20AF	--	--	--				
0400	5050		76	8.0C																		
02/07/85																						
0750	5050	1.3	7.5	42.8F	7.1	279	22	14	13	--	97	--	8.0	--	4	--	--	--	113	0.5		
			75	6.0C	6.0	287	1.10	1.15	5.7	--	1.94	--	0.23	--	3A	--	--	--	16	0.4		5
04/04/85																						
1730	5050	6E	10.1	68.0F	8.2	260	--	--	--	--	--	--	--	--	14AF	--	--	--				
06/07/85	5050		8.2	73.4F	7.7	263	--	--	--	--	--	--	--	--	--	--	--	--				
0740	5050	534	99	23.0C											15AF	--	--	--				
08/08/85																						
0900	5050	310	7.2	77.0F	7.8	268	--	--	--	--	--	--	--	--	4AF	--	--	--				
AR 1500.00						AR404																
10/04/84	5050	8.6	60.4F	7.3	231	12	20	7.0	1.3	--	--	--	3.0	--	0	--	--	--	0.0			
0620	5050	91	16.0C			1.0	1.04	3.6	0.3	--	--	--	0.08	0.08	1AF	--	--	--				5
11/07/84																						
1600	5050	9.4	50.4F	7.6	235	14	19	7.0	1.3	--	--	--	4.0	4.0	--	0	--	--	113	0.0		5
		88	10.5C			0.70	1.56	3.0	0.3	--	--	--	0.08	0.11	2AF	--	--	--				5
12/05/84																						
0800	5050	10.5	46.4F	7.5	205	12	16	5.0	1.0	--	--	--	7.0	2.0	--	0	--	--	96	0.0		5
0900	5050	93	8.0C			0.60	1.32	2.2	0.3	--	--	--	0.15	0.06	4AF	--	--	--				5
01/07/85																						
1100	5050	11.9	44.6F	7.6	260	16	21	6.0	1.1	--	--	--	7.0	3.0	--	1	--	--	127	0.0		5
		103	7.0C	8.2		0.80	1.73	2.6	0.3	--	--	--	0.15	0.08	2AF	--	--	--				5
02/04/85																						
1140	5050	12.2	40.1F	7.6	240	15	25	7.0	1.1	--	--	--	7.0	4.0	--	1	--	--	141	0.0		5
		99	4.5C			0.24	2.06	3.0	0.3	--	--	--	0.15	0.11	0AF	--	--	--				5
03/07/85																						
1100	5050	11.5	42.4F	7.6	262	15	23	6.0		--	--	--	3.0	6.0	--	0	--	--	132	0.0		5
		97	6.0C			0.75	1.89	2.6		--	--	--	0.06	0.17	2AF	--	--	--				5
04/03/85																						
0730	5050	10.0	50.4F	7.5	235	14	24	6.0		--	--	--	6.0	2.0	--	1	--	--	144	0.0		5
		94	10.5C			0.90	1.97	2.6		--	--	--	0.12	0.04	2AF	--	--	--				5
05/08/85																						
1635	5050	8.4	44.4F	7.4	320	17	26	7.0		--	--	--	5.0	4.0	--	1	--	--	150	0.0		5
		93	14.0C			0.85	2.14	3.0		--	--	--	0.10	0.11	1AF	--	--	--				5
06/04/85																						
1530	5050	8.7	70.7F	8.0	310	17	27	8.0		--	--	--	4.0	5.0	--	1	--	--	154	0.0		5
		163	21.5C			0.85	2.22	3.5	1.0	--	--	--	0.08	0.14	1AF	--	--	--				5
07/09/85																						
0955	5050	7.5	73.4F	7.8	335	19	31	8.0		--	--	--	5.0	4.0	--	1	--	--	175	0.0		5
		91	23.0C			0.95	2.55	3.5		--	--	--	0.12	0.11	1AF	--	--	--				5
08/06/85																						
1420	5050	8.0	79.7F	7.9	350	19	30	8.0		--	--	--	4.0	4.0	--	1	--	--	171	0.0		5
		104	26.5C			0.95	2.47	3.5		--	--	--	0.08	0.11	0AF	--	--	--				5
09/03/85																						
1415	5050	8.4	75.2F	7.6	332	18	30	8.0		--	--	--	4.0	4.0	--	1	--	--	169	0.0		5
		104	24.0C			0.90	2.47	3.5		--	--	--	0.08	0.11	2AF	--	--	--				5
09/30/85																						
1400	5050	8.6	68.4F	7.6	290	16	25	8.0		--	--	--	3.0	4.0	--	1	--	--	143	0.0		5
		100	20.5C			0.80	2.06	3.5		--	--	--	0.06	0.11	1AF	--	--	--				5

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE L#	G-L O	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE CaCO3				MILLIGRAMS PER LITER				SEM
							CA	NR	NA	H	SO4	CL	NO3	TURB	SIN2	TOX SIM	TH MCM	SAH ASAR	
AR 2050.00																			
CACNE C NF NR LOWER LAKE																			
AC4C0																			
10/25/84	5050		11.0	64.4F	8.3	322	--	--	--	--	--	--	--	--	--	--	--	--	--
1445	5050	AE	129	18.0C											1AF	--			
12/06/84	5050		11.2	40.2F	7.8	266	--	--	--	--	--	--	--	--	--	--	--	--	--
1000	5050	50E	100	9.0C											1AF	--			
02/07/85	5050		10.6	46.4F	7.7	356	--	--	--	--	--	--	--	--	--	--	--	--	--
0920	5050	20E	92	8.0C											2AF	--			
04/19/85	5050		11.0	57.2F	8.2	259	--	--	--	--	--	--	--	--	--	--	--	--	--
1310	5050		110	14.0C											1AF	--			
06/07/85	5050		10.2	55.4F	8.0	252	--	--	--	--	--	--	--	--	--	--	--	--	--
0915	5050	75E	100	13.0C											2AF	--			
08/08/85	5050		10.7		8.1	250	18	17	10	--	117	--	9.0	--	.6	--	115	0.4	
0855	5050	75E	8.4	257	90	1.40	33	91	16		2.34		.23		14	--	0	0.7	5
AB 5601.00																			
KELSEY C AR HIGH VLY C																			
AC404																			
10/04/84	5050		9.5	53.4F	7.3	120	6.0	7.0	6.0	1.4	--	2.0	2.0	--	.0	--		0.0	
0640	5050		97	13.0C			.30	.58	.26	.04		.04	.06		1AF	--			5
11/06/84	5050		10.0	51.8F	7.4	140	9.0	9.0	6.0	1.7	--	2.0	4.0	--	.0	--	60	0.0	
1400	5050		97	11.0C			.45	.74	.26	.04		.11			5AF	--			
12/04/84	5050		11.0	44.6F	7.4	135	8.0	9.0	6.0	1.2	--	.12	.06		.0	--	57	0.0	
1145	5050		97	7.0C			.26	.52	.26	.03					6AF	--			5
01/07/85	5050		9.7	43.7F	7.3	175	10	12	6.0	1.3	--	.12	3.0	--	.1	--	74	0.0	
1303	5050		83	8.5C	6.2		.50	.90	.26	.03					25AF	--			5
02/04/85	5050		12.0	41.9F	7.4	181	9.0	11	7.0	1.3	--	.10	.11		.1	--	68	0.0	
1230	5050		102	5.5C			.45	.90	.30	.03					1AF	--			5
03/07/85	5050		11.7	42.6F	7.6	165	10	12	6.0	--	--	.40	3.0	--	.1	--	74	0.0	
1210	5050		101	6.0C			.50	.90	.26	.15		.08	.08		2AF	--			5
04/01/85	5050		10.2	53.6F	7.7	149	10	11	6.0	--	--	.70	2.0	--	.1	--	70	0.0	
1145	5050		102	12.0C			.50	.90	.26	.16		.15	.06		1AF	--			5
05/08/85	5050		9.5	62.6F	7.7	170	10	12	7.0	--	--	.30	3.0	--	.1	--	74	0.0	
1530	5050		105	17.0C			.50	.90	.30	.17		.10	.08		1AF	--			5
06/04/85	5050		9.1	62.6F	7.8	160	9.0	10	6.0	--	--	.20	3.0	--	.1	--	64	0.0	
1200	5050		101	17.0C			.45	.82	.26	.17		.04	.08		1AF	--			5
07/09/85	5050		8.8	71.6F	8.0	150	10	9.0	7.0	--	--	.20	2.0	--	.1	--	62	0.0	
1200	5050		108	22.0C			.50	.74	.30	.14		.04	.06		2AF	--			5
08/06/85	5050		8.5	68.0F	7.5	147	8.0	8.0	7.0	--	--	.20	2.0	--	.1	--	93	0.0	
1000	5050		100	20.0C			.40	.66	.30	.22		.04	.06		1AF	--			5
09/03/85	5050		9.7	68.0F	7.5	128	8.0	8.0	7.0	--	--	.20	2.0	--	.1	--	93	0.0	
1245	5050		114	20.0C			.40	.66	.30	.22		.04	.06		1AF	--			5
09/30/85	5050		9.7	50.0F	7.5	132	7.0	7.0	6.0	--	--	.10	3.0	--	.1	--	46	0.0	
1130	5050		103	19.0C			.35	.59	.26	.22		.02	.08		1AF	--			5
AB 5610.00																			
HIGH VALLEY C AR KELSEY C																			
AC404																			
10/04/84	5050		7.7	56.1F	7.4	330	27	19	7.0	.8	--	.40	2.0	--	.1	--		0.0	
0900	5050		81	14.5C			1.35	1.56	.30	.02		.08	.06		0AF	--			5
11/06/84	5050		9.9	52.7F	7.4	300	32	16	6.0	.8	--	.12	.08	--	.0	--	146	0.0	
1400	5050		97	11.5C			1.60	1.32	.26	.02					2AF	--			5
01/07/85	5050		11.2	43.7F	7.6	227	23	13	5.0	.6	--	.19	2.0	--	.2	--	111	0.0	
1240	5050		98	6.5C	6.2		1.15	1.07	.22	.02					39AF	--			5
02/04/85	5050		12.4	41.9F	7.6	280	20	15	6.0	.5	--	.17	.06	--	.2	--	134	0.0	
1230	5050		106	5.5C			1.45	1.23	.26	.01					0AF	--			5
03/07/85	5050		11.1	46.4F	7.6	230	24	12	5.0	--	--	.10	.06	--	.1	--	110	0.0	
1230	5050		101	8.0C			1.20	.99	.22	.5					2AF	--			5
04/21/85	5050		10.0	53.6F	7.6	188	24	13	5.0	--	--	.15	.06	--	.2	--	114	0.0	
1130	5050		100	12.0C			1.20	1.07	.22	.9					2AF	--			5
09/08/85	5050		9.0	64.4F	7.7	280	30	16	6.0	--	--	.10	.06	--	.1	--	141	0.0	
1515	5050		102	14.0C			1.50	1.32	.26	.8					17AF	--			5

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAR	P.H. D	OO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER						
						CA	MG	NA	K	CAC03	SO4	CL	NO3	TURB	SI02	TDS	TH	KAR	REM	
AR 4610.00 HIGH VALLEY C AR KELSEY C						A0404 CONTINUED														
06/04/83	5050			9.0	61.7F	7.9	305	33	16	6.0	--	--	5.0	2.0	--	.1	--	149	0.0	
1145	5050			90	16.5C			1.65	1.32	.26			.10	.06	1AF	--				
								51	41	F									S	
07/09/83	5050			8.4	68.9F	7.9	340	38	20	8.0	--	--	6.0	2.0	--	.2	--	177	0.0	
1130	5050			100	20.5C			1.90	1.64	.35			.12	.06	1AF	--				
								49	42	9									S	
08/06/83	5050			7.4	63.3F	7.8	360	31	19	8.0	--	--	5.0	2.0	--	.2	--	156	0.0	
0943	5050			85	18.5C			1.35	1.56	.35			.10	.06	1AF	--				
								45	43	1C									C	
09/03/83	5050			7.7	65.3F	7.3	360	30	22	9.0	--	--	6.0	2.0	--	.3	--	166	0.0	
1215	5050			88	18.5C			1.30	1.61	.35			.12	.06	1AF	--				
								41	49	11									S	
09/30/83	5050			8.0	59.9F	7.5	355	37	20	8.0	--	--	5.0	2.0	--	.1	--	175	0.0	
1100	5050			86	19.5C			1.85	1.64	.35			.10	.06	1AF	--				
								48	43	5									S	
AR 5616.00 BOTTLE ROCK PWR PLANT NR GLENBROOK						A0404														
07/27/83	5050							.00	.00	1.0	--	2.4	5.0	14	--	.4	.1	0	0.0	
1430	5050					8.0	584	.00	.00	.04		4.48	.10	.39	--	--	167	0	0.0	
								0	0	10C									S	
08/15/83	5050							1.0	.0	2.0	--	2	444	27	--	149	.3	1020	2	0.6
1330	5050					6.4	1320	.03	.00	.09		.04	9.24	.76	--	624	1	1.1	F	
								36	0	64									T	
08/15/83	5050							.00	.00	.0	--	174	6.0	65	--	53.0	.1	163	0	0.0
1340	5050					6.7	670	.00	.00	.0C		3.48	.17	1.83	--	230	0	0.0	F	
																			T	
09/03/83	5050							--	--	1.0	--	--	376	--	--	146	--			
1115	5050					7.0	1200	--	--	.04		--	7.83	--	--	--				
09/12/83	5050							--	--	1.0	--	--	310	--	--	111	--			
5050	5050					7.2	1050	--	--	.04		--	6.43	--	--	--				
09/12/83	5050							--	--	1.0	--	--	29	--	--	31.0	--			
5050	5050					8.3	584	--	--	.04		--	.60	--	--	--				
AR 5701.00 KELSEY C & GLENBROOK						A0404														
10/04/84	5050			9.9	53.6F	7.3	111	7.0	3.0	6.0	--	2.0	2.0	--	.0	--		0.0		
0715	5050			99	12.0C			.35	.41	.26			.04	.06	--	2AF	--			
								33	38	24									S	
11/06/84	5050			9.7	51.8F	7.4	113	6.0	6.0	6.0	2.1	--	1.0	3.0	--	.0	--	44	0.0	
1320	5050			95	11.0C			.40	.49	.26	.05		.02	.08	--	5AF	--			
								33	41	22	4								S	
12/04/84	5050			10.5	47.3F	7.3	100	6.0	6.0	3.0	1.4	--	3.0	2.0	--	.0	--	40	0.0	
1545	5050			97	8.5C			.10	.49	.22	.04		.06	.06	--	4AF	--			
								29	47	21	4								S	
01/07/85	5050			11.5	45.3F	7.5	118	7.0	7.0	3.0	1.5	--	2.0	2.0	--	.0	--	46	0.0	
1430	5050			103	7.5C	8.2		.35	.38	.22	.04		.04	.06	--	15AF	--			
								26	49	18	3								S	
02/04/85	5050			11.8	42.8F	7.4	119	7.0	6.0	6.0	1.5	--	4.0	3.0	--	.0	--	42	0.0	
1340	5050			102	6.0C			.35	.49	.26	.04		.08	.08	--	2AF	--			
								31	43	23	4								S	
03/07/85	5050			11.4	42.8F	7.4	115	7.0	6.0	6.0	--	--	2.0	2.0	--	.1	--	42	0.0	
1320	5050			99	6.0C			.35	.49	.26			.04	.06	--	4AF	--			
								32	43	24									S	
04/01/85	5050			9.6	38.1F	7.5	102	7.0	6.0	6.0	--	--	4.0	2.0	--	.0	--	42	0.0	
1430	5050			101	14.5C			.35	.49	.26			.08	.06	--	5AF	--			
								32	43	24									C	
05/05/85	5050			9.5	36.3F	7.6	120	7.0	7.0	6.0	--	--	1.0	2.0	--	.1	--	46	0.0	
1445	5050			98	12.5C			.35	.38	.26			.02	.06	--	3AF	--			
								29	49	22									S	
06/04/85	5050			9.6	59.0F	7.7	130	7.0	6.0	7.0	--	--	1.0	3.0	--	.0	--	42	0.0	
1300	5050			96	15.0C			.35	.49	.30			.02	.08	--	1AF	--			
								31	43	26									S	
07/09/85	5050			8.7	67.1F	7.8	122	7.0	3.0	6.0	--	--	2.0	2.0	--	.0	--	38	0.0	
1345	5050			102	19.5C			.35	.41	.26			.04	.06	--	1AF	--			
								34	40	25									S	
08/06/85	5050			9.1	64.4F	7.8	120	7.0	5.0	7.0	--	--	2.0	2.0	--	.0	--	38	0.0	
1145	5050			103	18.0C			.35	.41	.30			.04	.06	--	2AF	--			
								33	39	28									S	
09/03/85	5050			9.9	59.0F	7.5	120	7.0	3.0	7.0	--	--	2.0	2.0	--	.0	--	38	0.0	
1340	5050			106	15.0C			.35	.41	.30			.04	.06	--	1AF	--			
								33	39	28									S	
09/30/85	5050			9.7	55.4F	7.4	120	7.0	6.0	7.0	--	--	1.0	2.0	--	.0	--	42	0.0	
1300	5050			90	13.0C			.35	.49	.30			.02	.06	--	2AF	--			
								31	43	26									S	

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	G.M. G	NO SAT	TEMP	STEEL LABORATORY PH	EC	MINERAL CONSTITUENTS TH				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				SAR	REH
							CA	MG	NA	P	CAO3	SO4	CL	NO3	THUR	SI02	TDS SUM	TH MCM	ASAR	

AP 5710.00 ALDER C & GLENBROOK A0404																				
10/04/84	5050		9.7	51.6F	7.2	75	4.0	2.0	4.0	1.2	--	2.0	2.0	--	.0	--			0.0	
0930	5050		9.7	11.0C			.20	.16	.17	.03		.04	.06	--	14F	--				\$
							36	29	30	5										
11/06/84	5050		10.0	50.0F	7.2	98	8.0	4.0	5.0	1.7	--	3.0	2.0	--	.0	--		56	0.0	
1900	5050		93	10.0C			.40	.33	.22	.04		.06	.06	--	54F	--				\$
							.40	.33	.22	.04										
12/04/84	5040		10.6	45.5F	7.3	110	9.0	5.0	4.0	1.1	--	5.0	1.0	--	.0	--		43	0.0	
1530	5050		96	7.5C			.45	.41	.17	.03		.10	.03	--	64F	--				\$
							.42	.39	.16	.3										
01/07/85	5050		11.9	44.6F	7.5	122	11	6.0	4.0	1.2	--	4.0	2.0	--	.0	--		52	0.0	
1400	5050		106	7.0C	8.0		.55	.49	.17	.03		.08	.06	--	94F	--				\$
							.44	.40	.14	.2										
02/04/85	5050		11.8	44.6F	7.2	118	9.0	5.0	4.0	1.1	--	6.0	2.0	--	.1	--		43	0.0	
1330	5050		105	7.0C			.45	.41	.17	.03		.12	.06	--	14F	--				\$
							.42	.39	.16	.3										
03/07/85	5050		11.6	44.6F	7.3	104	9.0	5.0	4.0	1.2	--	3.0	1.0	--	.0	--		43	0.0	
1335	5050		103	7.0C			.45	.41	.17			.06	.03	--	14F	--				\$
							.44	.40	.17											
04/01/85	5050		10.0	37.2F	7.6	117	13	7.0	5.0	--	--	5.0	2.0	--	.1	--		62	0.0	
1400	5050		105	14.0C			.65	.58	.22			.10	.06	--	24F	--				\$
							.45	.40	.15											
06/04/85	5050		9.0	---	7.6	105	7.0	5.0	4.0	--	--	3.0	0.0	--	.1	--		38	0.0	
1245	5050		100	17.0C			.35	.41	.35			.06	.25	--	14F	--				\$
							30	36	34											
07/08/85	5050		8.1	73.4F	7.7	88	5.0	3.0	4.0	--	--	2.0	1.0	--	.1	--		25	0.0	
1230	5050		101	23.0C			.25	.25	.17			.04	.03	--	24F	--				\$
							37	37	25											
08/06/85	5050		8.7	46.9F	7.3	82	5.0	3.0	4.0	--	--	2.0	1.0	--	.1	--		25	0.0	
1130	5050		104	20.5C			.25	.25	.17			.04	.03	--	14F	--				\$
							37	37	25											
09/03/85	5050		8.6	68.0F	7.4	73	4.0	2.0	4.0	--	--	3.0	2.0	--	.0	--		18	0.0	
1320	5050		102	20.0C			.20	.16	.17			.06	.06	--	14F	--				\$
							38	30	32											
09/30/85	5050		9.9	61.7F	7.6	80	6.0	3.0	5.0	--	--	2.0	1.0	--	.0	--		28	0.0	
1230	5050		109	16.5C			.30	.25	.22			.04	.03	--	14F	--				\$
							39	32	29											
A9 1250.00 PUTAN C NR WINTERS A0280																				
04/08/85	5050	5.66	10.4	23 F	8.0	320	19	27	11	--	148	--	5.0	--	--	--	183	154	0.4	
0950	5050		96	12 C	8.2	337	.99	2.22	.44		2.98		.14	--	24	--		11	0.7	
							26	61	13											
09/25/85	5050	6.78	7.9	55.9F	8.1	343	18	27	11	1.3	170	21	6.0	.6	.2	--	186	156	0.4	
1030	5050		76	13.3C	8.6	328	.90	2.22	.44	.03	3.00	.44	.17	.01			179	6	0.7	
							25	61	13	1	83	12	.5	0						
R0 1175.01 COSUMNES R & OLLARD RD R0342																				
10/04/84	5050		9.0	69.8F	7.4	90	--	--	4.0	--	--	--	2.0	--	--	--				\$
1025	5050		101	21.0C					.17			--	.06	--	24	--				
11/09/84	5050		10.2	56.8F	7.2	60	--	--	4.0	--	--	--	2.0	--	--	--				\$
1015	5050		98	13.6C		82			.17			--	.06	--	124	--				
12/01/84	5050		11.3	30.9F	7.3	135	--	--	5.0	--	--	--	4.0	--	--	--				
1040	5050		101	10.5C		129			.22			--	.11	--	24	--				
R0 2105.20 HOKELIUNE R & LOVER SACTO,PO R0380																				
10/04/84	5050		9.4	63.5F	7.2	45	--	--	2.0	--	--	--	1.0	--	--	--				\$
0915	5050		96	17.5C		44			.09			--	.03	--	24	--				
11/04/84	5050		9.6	60.6F	7.0	42	--	--	2.0	--	--	--	1.0	--	--	--				\$
0920	5050		97	16.0C		45			.09			--	.03	--	74	--				
12/05/84	5050		10.9	53.6F	7.2	60	--	--	2.0	--	--	--	2.0	--	--	--				\$
0945	5050		101	12.0C		46			.09			--	.06	--	48	--				
R0 2500.00 CALAVERAS R NR JENNY LIND R0300																				
04/18/85	2145		11.4	51.5F	8.0	185	--	--	--	--	--	--	--	--	--	--	117			\$
1015	5050		103	10.4C								--	--	--	24	--				
R0 7020.00 SAN JOAQUIN R NR VERNALIS R0100																				
10/25/84	5050		7.9	90.9F	7.4	350	--	--	3.0	--	--	--	.41	--	--	--				\$
0810	5050		79	15.5C		374			1.70			--	1.16	--	154	--				
11/29/84	5050		9.2	52.7F	7.1	380	--	--	.43	--	--	--	.44	--	--	--				\$
0940	5050		84	11.5C		400			1.87			--	1.24	--	104	--				
12/12/84	5050		9.2	51.8F	7.3	380	--	--	.34	--	--	--	.32	--	--	--				\$
0830	5050		83	11.0C		324			1.48			--	.90	--	94	--				
01/30/85	5050		10.5	46.4F	7.4	480	22	11	54	--	--	--	.55	--	--	--	100	0.0		\$
0750	5050		88	8.0C		483	1.10	.90	2.35			--	1.55	--	14	--				
							29	21	54											

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAR	F.H. C	ON SAT	TEMP F	FIELD LABORATORY PH	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTION VALUE				MILLIGRAMS PER LITER				REM		
						CA	MG	NA	K	CACF3	S04	CL	NO3	TH04	SI02	TOTL	TH		SAR	
RD 7020.00 SAN JUAN R NB VERNALIS						PC100 CONTINUED														
02/22/84 1310	5050	5.4	54	F	7.4	508	--	--	75	--	--	--	6.9	--	--	--	--	--		
	5050					598	--	--	3.26	--	--	--	1.95	--	104	--	--			
02/27/85 0414	5050	0.4	54.5F	7.4	590	30	15	70	2.4	75	95	73	7.7	4	--	342	137	2.6		
	5050	90	12.4C	7.4	629	1.50	1.23	3.05	.07	1.56	1.98	2.06	.12	94	--	340	59	3.9		
						26	21	52	1		35	36	2							
03/27/85 0444	5050	0.0	58.6F	7.4	700	--	--	92	--	--	--	97	--	--	--	--	--			
	5050	83	12.0C		801	--	--	4.00	--	--	--	2.74	--	174	--	--				
R1 1150.00 COSUMNES R & MICHIGAN RAR						R0481														
10/23/84 0450	2163	2.43	0.1	97	F	7.1	75	--	--	--	--	--	--	--	--	94	--	54		
	5050		88	14	C															
04/25/85 1330	5050	10.1	54.5F	7.5	60	6.0	3.0	3.0	C	--	26	--	1.0	--	--	--	54	24	0.2	E
	5050	95	12.4C	7.4	61	.30	.25	.16	.13		.52	.63		14	--	--	54	2	0.1	
						44	37	16												
08/15/85 1400	2163	1.73	5.5	83.7F	6.9	150	--	--	--	--	--	--	--	--	--	94	--	146		
	5050		71	26.7C																
09/26/85 0840	5050	1.93	7.1	70.9F	7.9	95	7.0	5.0	5.0	1.2	45	4.0	2.0	.01	.0	--	62	34	0.4	E
	5050	80	21.4C	6.1	95	.35	.41	.22	.03		.90	.08	.06	.05	14	--	51	0	0.3	C
						35	41	22	3		87	8	6	0						
R1 2100.00 COSUMNES R NF NR EL ONRAON						R0443														
04/25/85 1230	5050	7.0	54	F	7.4	48	5.0	2.0	3.0	C	--	20	--	1.0	--	--	46	20	0.3	E
	5050	67	12	C	7.4	50	.25	.16	.13		.40	.03		14	--	--	46	1	0.1	
						46	30	24												
09/20/85 1130	5050	6.2	64.6F	7.6	79	6.0	2.0	3.0	1.0	27	2.0	1.0	.0	.0	--	52	23	0.3	E	
	5050	89	19.2C	6.0	68	.30	.16	.13	.03	.54	.04	.03	.05		--	31	0	0.1	T	
						48	26	21	5	89	7	5	0							
R1 3150.00 COSUMNES R HF NR SOMERSET						R0444														
04/25/85 0913	5050	10.3	46.5F	7.1	40	3.0	1.0	2.0	C	--	16	--	1.0	--	--	--	36	12	0.3	E
	5050	92	8.0C	7.4	39	.15	.08	.09			.32	.03		14	--	--	36	0	0.0	
						47	25	28												
09/20/85 0915	5050	6.2	58.6F	7.4	69	6.0	2.0	3.0	1.1	29	2.0	1.0	.0	.0	--	49	23	0.3	E	
	5050	86	14.6C	6.0	61	.30	.16	.13	.03	.38	.04	.03	.05		--	32	0	0.1	T	
						48	26	21	5	89	6	5	0							
R1 4110.01 COSUMNES R SF & R PINES						R0444														
04/25/85 0950	5050	10.4	48	F	7.6	103	12	5.0	6.0	--	46	--	2.0	--	--	--	61	50	0.4	E
	5050	96	9	C	7.3	106	.60	.41	.26		.92	.06		34	--	--	51	5	0.3	
						47	32	20												
09/20/85 0950	5050	7.4	58.3F	7.4	150	13	6.0	5.0	1.5	60	6.0	4.0	.0	.0	--	97	47	0.3		
	5050	77	14.4C	6.3	149	.65	.44	.22	.04	1.20	.12	.11	.05		--	71	0	0.3	T	
						46	35	16	3	84	8	8	0							
R2 1375.00 MCKELUMNE R NR MCKELUMNE WILL						R0400														
04/25/85 1100	5050	10.6	54.5F	7.3	38	4.0	1.0	3.0	C	--	13	--	1.0	--	--	--	38	14	0.3	E
	5050	101	12.5C	7.5	34	.20	.08	.13			.26	.03		14	--	--	38	1	0.0	
						49	20	32												
09/20/85 1040	5050	9.2	61.9F	7.6	32	2.0	1.0	1.0	.5	12	1.0	1.0	.0	.0	--	23	9	0.1	E	
	5050	96	16.4C	7.4	25	.10	.08	.04	.01	.24	.02	.03	.05		--	14	0	0.0	T	
						43	35	17	4	83	7	10	0							
R8 X R02.2 155.6 MALLARD SL & PP						E07C1														
02/13/85 0750	5050	11.9	52.7F	7.7	695	--	--	96	--	--	--	155	--	--	--	--	--			
	5050	100	11.5C		749	--	--	4.18	--	--	--	4.37	--	124	--	--				
03/13/85 0415	5050	13.5	57.2F	8.4	2100	--	--	320	--	--	--	558	--	--	--	--	--			
	5050	130	14.0C		2160	--	--	13.92	--	--	--	15.74	--	104	--	--				
R9 C 74.0 133.4 DELTA MENDOTA CA & LINDSEY RE						R0100														
10/25/84 1000	5050	9.4	60.8F	7.4	260	--	--	25	--	--	--	26	--	--	--	--	--			
	5050	90	14.0C		268	--	--	1.04	--	--	--	.73	--	94	--	--				
11/20/84 1215	5050	10.2	51.8F	7.4	320	--	--	32	--	--	--	34	--	--	--	--	--			
	5050	92	11.0C		321	--	--	1.35	--	--	--	.64	--	94	--	--				
12/11/84 1015	5050	9.3	52.7F	7.2	310	--	--	31	--	--	--	32	--	--	--	--	--			
	5050	85	11.5C		315	--	--	1.35	--	--	--	.90	--	144	--	--				
01/30/85 0850	5050	10.6	45.5F	7.3	360	21	11	38	--	--	--	44	--	--	--	--	94	0.0		
	5050	84	7.5C		304	1.05	.90	1.65	--	--	--	1.24	--	14	--	--				
						29	25	46												
02/27/85 1014	5050	9.0	55.4F	7.5	325	--	--	31	--	--	--	34	--	--	--	--	--			
	5050	84	13.0C	7.4	334	--	--	1.35	--	--	--	.94	--	114	--	--				
03/27/85 0645	5050	9.4	53.8F	7.4	320	--	--	25	--	--	--	31	--	--	--	--	--			
	5050	81	12.0C		314	--	--	1.26	--	--	--	.87	--	94	--	--				
R9 R 74.0 124.0 ON P & TRACY ON R8						R0100														
10/22/84 0845	5050	8.4	F		234	14	6.0	2.4	--	--	--	25	--	--	--	--	135	60	0.0	
	5050	14	C		251	.70	.49	1.04	--	--	--	.71	--	--	--	--				
						31	22	47												
11/11/84 1010	5050	57	F		340	27	13	56	--	--	--	72	--	--	--	--	304	121	0.0	
	5050	14	C		349	1.15	1.07	2.57	--	--	--	2.03	--	--	--	--				
						27	21	54												
12/17/84 1210	5050	50	F		360	14	7.0	14	--	--	--	14	--	--	--	--	124	64	0.0	E
	5050	10	C		203	.70	.58	.61	--	--	--	.39	--	--	--	--				
						37	31	32												

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	G.W. D	NO SAT	TEMP	FIELD LABORATORY RM EC	MINERAL CONSTITUENTS IN				MILLIEQUIVALENTS PER LITER				MILLICGRAMS PER LITER						
						CA	MG	NA	K	PERCENT CACO3	SO4	CL	NO3	TURB	SI02	TDS	TN	NH4	AS04	REM
NO D 748.3 126.0 OLD R & TRACY RD RR																				
60100 CONTINUED																				
01/17/85	5050			46 F	775	36	10	85	--	--	--	105	--	--	--	446	168	0.0		
1000	5050			8 C	783	1.80	1.36	3.70	--	--	--	2.94	--	--	--					
02/21/85	5050			59 F	800	42	21	102	--	--	--	113	--	--	--	519	192	0.0		
1145	5050			13 C	873	2.10	1.73	4.44	--	--	--	3.19	--	--	--					
04/16/85	5050			68 F	898	38	24	104	--	--	--	113	--	--	--	480	194	0.0		
1030	5050			20 C	801	1.90	1.07	4.52	--	--	--	3.19	--	--	--					
05/16/85	5050			69 F	830	40	20	82	--	--	--	89	--	--	--	487	182	0.0		
1015	5050			21 C	767	2.00	1.64	3.97	--	--	--	2.79	--	--	--					
06/19/85	5050			78.1F	893	44	22	93	--	--	--	117	--	--	--	522	201	0.0		
0930	5050			25.6C	886	2.20	1.81	4.05	--	--	--	3.30	--	--	--					
NO D 751.9 119.3 SAN JOAQUIN R & ARANOT RR																				
60100																				
10/22/84	5050			57 F	258	14	6.0	25	--	--	--	27	--	--	--	146	60	0.0		
0800	5050			14 C	268	.70	.49	1.00	--	--	--	.76	--	--	--					
11/13/84	5050			52 F	468	29	14	62	--	--	--	69	--	--	--	315	130	0.0		
0945	5050			11 C	550	1.45	1.15	2.70	--	--	--	1.95	--	--	--					
12/13/84	5050			50 F	359	18	6.0	39	--	--	--	40	--	--	--	205	78	0.0		
0945	5050			10 C	362	.90	.66	1.70	--	--	--	1.13	--	--	--					
01/17/85	5050			46 F	504	22	12	54	--	--	--	56	--	--	--	276	105	0.0		
0915	5050			8 C	488	1.10	.99	2.35	--	--	--	1.58	--	--	--					
02/21/85	5050			53 F	873	42	21	102	--	--	--	112	--	--	--	529	192	0.0		
1045	5050			12 C	863	2.10	1.73	4.44	--	--	--	3.16	--	--	--					
03/15/85	5050	5.33		55 F	653	33	16	74	--	--	--	76	--	--	--	403	149	0.0		
1000	5050			13 C	656	1.45	1.32	3.22	--	--	--	2.14	--	--	--					
04/16/85	5050	4.25		68 F	816	42	20	94	--	--	--	97	--	--	--	467	187	0.0		
0945	5050			21 C	776	2.10	1.64	4.09	--	--	--	2.74	--	--	--					
05/16/85	5050			68 F	709	36	18	75	--	--	--	87	--	--	--	426	164	0.0		
0945	5050			21 C	692	1.80	1.48	3.26	--	--	--	2.45	--	--	--					
06/19/85	5050			80.0F	736	36	18	78	--	--	--	95	--	--	--	435	164	0.0		
0845	5050			27.1C	759	1.80	1.48	3.39	--	--	--	2.68	--	--	--					
NO D 753.5 129.3 MIDDLE R & BORDEN HWY																				
60100																				
02/06/85	5050			11.2	43.7F	7.3	390	--	--	38	--	43	--	--	--					
0830	5050			91	6.5C		591	--	--	1.65	--	1.21	--	134	--					
03/06/85	5050			10.0	50.0F	7.4	390	--	--	31	--	34	--	--	--					
0800	5050			88	10.0C		339	--	--	1.35	--	.96	--	124	--					
NO D 755.1 137.4 CONTRA COSTA-EAST TO PUMPING PL-1																				
60100																				
10/22/84	5050			60 F	395	16	12	41	--	--	--	43	--	--	--	199	90	0.0		
0930	5050			16 C	406	.80	.69	1.78	--	--	--	1.21	--	--	--					
04/16/85	5050			68.4F	355	19	12	36	--	--	--	39	--	--	--	217	97	0.0		
1115	5050			20.2C	379	.99	.90	3.57	--	--	--	1.10	--	--	--					
05/16/85	5050			72.1F	350	15	11	34	--	--	--	40	--	--	--	190	82	0.0		
1100	5050			22.3C	343	.75	.60	1.48	--	--	--	1.13	--	--	--					
06/19/85	5050			76.6F	350	14	10	34	--	--	--	41	--	--	--	178	76	0.0		
1015	5050			24.8C	332	.70	.62	1.57	--	--	--	1.16	--	--	--					
NO D 756.2 131.7 MIDDLE R & MODELINHE 40U																				
60100																				
11/13/84	5050			57 F	239	14	7.0	20	--	--	--	21	--	--	--	124	64	0.0		
1245	5050			14 C	223	.70	.58	.87	--	--	--	.99	--	--	--					
12/17/84	5050			50 F	370	19	9.0	35	--	--	--	41	--	--	--	210	84	0.0		
1330	5050			10 C	369	.95	.74	1.52	--	--	--	1.16	--	--	--					
01/17/85	5050			45 F	406	23	11	37	--	--	--	44	--	--	--	244	109	0.0		
1130	5050			7 C	414	1.15	.90	1.61	--	--	--	1.34	--	--	--					
02/21/85	5050			52 F	360	19	11	33	--	--	--	38	--	--	--	216	92	0.0		
1300	5050			11 C	356	.95	.80	1.44	--	--	--	1.07	--	--	--					
03/15/85	5050			57 F	393	21	11	37	--	--	--	42	--	--	--	233	98	0.0		
1215	5050			14 C	391	1.05	.90	1.61	--	--	--	1.18	--	--	--					

MINERAL ANALYSES OF SURFACE WATER

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TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAR	G.W. C	OD SAT	TEMP	FIELD LABORATORY PN EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MULTIFUNCTIONAL PER LITR				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				REMARKS
						CA	MG	NA	K	C	CL	NO3	NO2	TPH	TH	TAH	ASAR	
RQ D R03.6 130.0 LITTLE CONNECTION EMPIRE ATHERTON R0100																		
02/06/85 0845	5050 5050		11.2 02	44.6F 7.0C	7.4 265 252	--	--	26 .87	--	--	22 .42	--	--	54 --	--	--		S
03/06/85 0915	4050 5050		10.0 00	51.6F 11.0C	7.4 215 218	--	--	14 .61	--	--	18 .51	--	--	74 --	--	--		E
RQ D R13.4 130.3 MOKELIMNE #2 NORTH AL SHONGRASS SL R0100																		
10/22/84 1045	5050 5050				57 F 14 C	142 141	11 .55 37	6.0 .49 33	10 .44 30	--	--	6.0 .17	--	--	90 52	0.0		
03/19/85 1000	5050 5050				55 F 13 C	182 182	13 .65 38	7.0 .58 34	13 .46 26	--	--	8.0 .23	--	--	112 42	0.0		
04/17/85 1015	5050 5050				65 F 18 C	160 162	14 .70 33	7.0 .58 33	11 .48 27	--	--	7.0 .20	--	--	93 44	0.0		
06/21/85 0944	5050 5050				71.2F 21.8C	136 136	0.0 .45 37	5.0 .41 34	8.0 .35 26	--	--	5.0 .14	--	--	78 43	0.0		
RQ D R14.4 131.0 SACRAMENTO R A WALNUT GROVE A0100																		
11/20/84 1100	5050 5050				60 F 16 C	140 148	11 .55 37	6.0 .49 33	10 .44 30	--	--	9.0 .25	--	--	97 52	0.0		
12/18/84 1030	5050 5050				49.1F 9.5C	148 150	13 .85 38	6.0 .49 29	13 .57 33	--	--	7.0 .20	--	--	112 57	0.0		F
01/22/85 1200	5050 5050				43 F 6 C	206 205	14 .70 36	8.0 .66 34	14 .61 31	--	--	10 .28	--	--	122 68	0.0		
03/19/85 1030	5050 5050				55 F 13 C	181 184	14 .70 36	8.0 .66 34	13 .57 30	--	--	9.0 .25	--	--	122 68	0.0		
04/17/85 1100	5050 5050				66 F 19 C	176 172	14 .70 39	7.0 .58 32	12 .52 25	--	--	8.0 .23	--	--	90 54	0.0		
06/03/85 0930	5050 5050				64.2F 17.9C	182 188	12 .60 34	7.0 .58 33	13 .57 33	--	--	7.0 .20	--	--	111 59	0.0		
06/21/85 1045	5050 5050				71.6F 22.0C	148 128	13 .65 33	7.0 .58 29	17 .74 38	--	--	16 .45	--	--	80 62	0.0		
RQ D R14.5 148.2 CALHOUN CUT TR18 HWY 113-CREED R0 A0100																		
11/28/84 1030	5050 5050				8.0 76	55.4F 13.0C	7.3 8.4	260 281	5.0 .25 12	4.0 .33 75	45 2.13	--	--	26 .73	--	--	177 29	4.0 0.0
RQ D R14.6 130.5 MINER SLU & RYDE ISL SCH HWY A0100																		
10/24/84 1215	5050 5050				9.5 94	59 F 15 C	7.6 7.2	146 150	11 .55 37	6.0 .49 33	10 .44 30	--	--	8.0 .17	--	--	94 52	0.0 0.0
01/25/85 1330	5050 5050				10.6 88	45 F 7 C	7.4 8.0	204 240	16 .80 34	10 .82 35	17 .74 31	--	--	12 .34	--	--	81 4	0.0 1.1
04/11/85 0900	5050 5050				9.0 93	13 F 17 C	7.6 8.1	187 196	15 .75 36	9.0 .74 35	14 .61 31	--	--	10 .28	--	--	116 74	0.7 0.0
07/29/85 1230	5050 5050				7.7 87	70.7F 21.5C	7.6 8.4	165 152	11 .55 34	7.0 .48 30	11 .47 30	--	--	5.0 .14	--	--	194 0	0.0 0.7
RQ D R15.0 136.0 STEAMHEAD SLU AL SUTTER SLU A0100																		
10/22/84 1230	5050 5050				58 F 14 C	140 142	10 .50 37	6.0 .49 37	8.0 .35 28	--	--	5.0 .14	--	--	89 50	0.0		
11/20/84 1015	5050 5050				52 F 11 C	143 144	10 .50 38	5.0 .41 32	9.0 .39 30	--	--	8.0 .23	--	--	93 46	0.0		
12/14/84 1100	5050 5050				48 F 9 C	148 149	12 .80 42	6.0 .49 34	8.0 .35 24	--	--	8.0 .17	--	--	92 44	0.0		
01/22/85 1230	5050 5050				43 F 6 C	232 205	14 .70 36	8.0 .66 34	14 .61 31	--	--	10 .28	--	--	123 68	0.0		
04/17/85 1145	5050 5050				66 F 19 C	165 176	14 .70 37	8.0 .66 35	12 .52 28	--	--	7.0 .20	--	--	104 48	0.0		
06/03/85 0900	5050 5050				64.9F 16.3C	184 171	12 .80 35	7.0 .58 34	12 .52 31	--	--	8.0 .17	--	--	104 59	0.0		
06/21/85 1100	5050 5050				73.0F 22.8C	137 123	0.0 .45 41	5.0 .41 33	8.0 .35 26	--	--	5.0 .14	--	--	74 43	0.0		

TABLE C-1 (CONTINUED)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLE LAB	C.W. O	DO SAT	TEMP	FIELD		MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE PER LITER				MILLIGRAMS PER LITER				REMARKS		
					LABORATORY PH	EC	CA	MG	NA	F	CACO3	SO4	CL	HOS	TUR	SI02	TOS SUM	TH MCM		SAR ASAR	
AQ D 15.8 146.2 LTN054Y SIU 4 HASTINGS CHIT										4C100											
10/11/RA 0950	5050 5050		A.0 #7	67.1F 10.9C	7.8	360 363	--	--	32 1.39	--	--	--	21 .90	--	--	28A	--				
10/24/RA 0945	5050 5050		B.A RA	54 14	F C	7.4 7.6	402 414	20 1.00	21 1.73	35 1.52	--	143 2.46	--	24 .48	--	28A	18.0	230	137 0	1.3 2.9	
11/15/RA 1045	5050 5050		B.6 A0	54.3F 12.5C	7.5	360 353	--	--	31 1.35	--	--	--	23 .65	--	--	28A	--				
11/16/RA 1203	5050 5050		B.0 A2	54 12	F C	7.6 6.5	360 345	18 .90	17 1.40	30 1.31	--	117 2.34	--	22 .62	--	22A	12.0	205	115 0	1.2 2.0	
11/05/RA 1049	5050 5050		7.8 70	50.9F 10.5C	7.4 7.4	440 428	18 1.0	10 1.56	44 1.91	--	127 2.54	--	33 .93	--	--	36A	13.0	265	123 0	1.7 2.0	
12/06/RA 1050	5050 5050		A.3 75	51.8F 11.0C	7.3	450 441	--	--	44 1.91	--	--	--	34 .96	--	--	37A	--				
01/25/RA 1045	5050 5050		Q.2 74	43 A	F C	7.4 A.2	542 558	24 1.20	25 2.05	56 2.44	--	153 3.06	--	50 1.04	46 1.30	--	4A 12A	.2 14.0	324 307	163 10	1.9 3.6
02/13/RA 1140	5050 5050		6.7 A0	50.9F 10.5C	7.3	360 361	--	--	43 1.97	--	--	--	35 .99	--	--	110A	--				
02/22/RA 1030	5050 5050		4.6 78	52 11	F C	7.4 7.4	435 445	19 .95	19 1.36	37 2.48	--	110 2.20	--	40 .83	46 1.10	--	4A 65A	.2 7.9	264 248	126 16	2.2 3.6
03/13/RA 1145	5050 5050		Q.1 A5	54.5F 12.5C	7.6	495 482	--	--	51 2.22	--	--	--	41 1.16	--	--	40A	--				
03/27/RA 1200	5050 5050		6.2 55	50 10	F C	8.0 9.0	489 508	21 1.03	22 2.35	54 2.35	--	130 2.65	--	43 1.21	--	--	35A	11.0	292	143 13	2.0 3.9
04/11/RA 1150	5050 5050		Q.5 102	66 19	F C	8.0 8.3	510 531	23 1.15	23 1.89	56 2.44	--	135 2.70	--	44 1.24	--	--	39A	12.0	305	152 17	2.0 3.5
05/17/RA 0930	5050 5050		8.1 87	46 19	F C	8.0 7.3	588 592	25 1.15	27 2.22	57 2.45	--	161 3.26	--	50 1.41	--	--	55A	13.0	349	174 11	1.9 3.6
07/20/RA 1010	5050 5050		7.6 A3	68.5F 20.3C	6.0 7.3	377 381	17 .45	17 1.40	34 1.48	--	109 2.18	--	26 .79	--	--	76A	17.0	232	113 4	1.4 2.2	
08/15/RA 0745	5050 5050		6.4 A8	66.0F 18.4C	4.0 8.5	363 383	17 .45	15 1.23	30 1.31	--	104 2.08	--	26 .59	25 .71	--	.2 31A	.1 18.0	211 196	104 0	1.3 2.0	
09/12/RA 1130	5050 5050		4.8 50	64.5F 10.0C	7.7 8.4	540 514	22 1.10	23 1.49	48 2.05	--	139 2.78	--	44 1.24	--	--	29A	19.0	300	150 11	1.7 3.1	
AQ D 817.8 144.8 CACHE SIII + VALLEJO PIPEL										40100											
10/11/RA 0930	5050 5050		7.8 A4	67.1F 10.5C	8.2	550 504	--	--	44 1.91	--	--	--	42 1.19	--	--	29A	--				
10/24/RA 0930	5050 5050		A.2 80	54 14	F C	7.8 7.6	778 790	40 2.00	39 3.21	64 3.21	--	200 4.00	--	76 2.14	--	--	12A	23.0	466	261 61	1.7 3.7
11/15/RA 1000	5050 5050		7.7 72	54.5F 12.5C	7.4	520 460	--	--	38 1.65	--	--	--	38 1.07	--	--	99A	--				
11/16/RA 1100	5050 5050		7.8 73	54 12	F C	7.6 8.5	500 478	26 1.30	22 1.91	40 1.74	--	117 2.34	--	41 1.16	--	--	99A	12.0	290	236 39	1.4 2.4
12/05/RA 1000	5050 5050		B.6 77	50.9F 10.4C	7.6 7.4	440 606	18 2.40	26 2.14	32 2.26	--	135 3.10	--	50 1.41	--	--	35A	18.0	380	197 42	1.6 3.2	
12/06/RA 0950	5050 5050		A.8 70	50.9F 10.5C	7.9	715 744	--	--	64 2.78	--	--	--	64 1.80	--	--	10A	--				
01/25/RA 1203	5050 5050		10.8 A0	45 7	F C	A.4 8.3	1001 1020	50 2.94	43 3.54	100 4.35	--	244 4.48	--	90 2.70	--	--	10A	24.0	324 40	2.4 5.6	
03/27/RA 1930	5050 5050		Q.5 A4	50 10	F C	7.6 7.7	257 274	17 .45	8.0 1.66	23 1.00	--	68 1.36	--	15 .42	--	--	240A	8.1	170	76 8	1.1 3.4
04/11/RA 1305	5050 5050		Q.5 102	46 10	F C	A.4 8.5	1024 908	40 2.44	46 3.78	05 4.05	--	246 4.92	--	47 2.45	--	--	16A	15.0	442	336 90	2.2 5.2
05/17/RA 1014	5050 5050		7.9 A4	64 18	F C	A.4 8.4	540 543	33 1.85	32 2.63	34 1.57	--	183 3.46	--	31 .87	--	--	26A	16.0	320	214 31	3.1 2.2
07/26/RA 0910	5050 5050		A.0 85	67.1F 10.5C	7.0	584 586	32 1.60	33 2.71	35 1.70	--	180 3.60	--	40 1.13	--	--	52A	14.0	393	216 36	1.2 2.4	

TABLE C-1 (CONTINUED)
MINERAL ANALYSIS OF SURFACE WATER

TIME	SAMPLER LAR	G.H. Q	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				TDS G/L	TH MG/L	SAR	REP
							CA	MG	NA	K	CAC03	SD4	CL	NO3	TI04	SI07	SI04	NO4	AS08			
RQ R 020.7 132.7 SACRAMENTO R A GREENS INC AC100																						
10/04/84 0620	5050 5050		9.0 94	63.5F 17.9C	7.4	180 132	--	--	8.0 .31	--	--	--	4.0 .11	--	--	7A	--	--	--	--	Y	
11/08/84 0820	5050 5050		9.7 94	57.2F 14.0C	7.3	160 154	--	--	1.4 .44	--	--	--	6.0 .17	--	11A	--	--	--	--	--	E	
12/05/84 0745	5050 5050		10.9 97	50.9F 10.5C	7.4	200 160	--	--	9.0 .39	--	--	--	6.0 .17	--	24	4	--	--	--	--	S	
01/30/85 1145	4050 5050		11.9 103	49.2F 9.0C	7.4	190 146	13 .65	7.0 .58	12 .52	--	--	--	7.0 .20	--	1A	--	--	--	--	62	0.40	
02/06/85 1130	5050 4050		12.1 102	46.4F A.0C	7.5	175 174	--	--	11 .48	--	--	--	4.0 .17	--	4A	--	--	--	--	--	S	
03/06/85 1200	5050 5050		10.5 95	51.6F 11.0C	7.4	180 180	--	--	11 .48	--	--	--	7.0 .20	--	4A	--	--	--	--	--	S	
RQ R 804.8 123.6 DWR-RP 13 MID-WAY, SO OF WHITE SL AC100																						
10/23/84 1349	5050 0000	-3.75		62 F 17 C	6.5	1785	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12/20/84 1110	5050 0000	-2.39		48 F 9 C	8.4	1723	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
02/21/85 1445	5050 0000	-3.10		51 F 11 C		1628	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
05/02/85 1120	5050 0000	-3.21		68 F 20 C		1697	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
06/05/85 1130	5050 0000	-2.86				1794	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
07/02/85 0830	5050 0000	-3.19				1778	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
08/01/85 1000	5050 0000	-2.89				1762	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RQ R 805.4 123.9 DWR-RP 12 MID-WAY RD OF WHITE SL R0100																						
10/23/84 0925	5050 0000	-1.97		60 F 16 C	8.3	795	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12/20/84 1035	5050 0000	-0.98		47 F 8 C	7.9	835	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RQ R 805.8 124.1 DWR-RP 11 N-END, TREEWAY RD, FARM R0100																						
10/23/84 1000	5050 0000	1.04		60 F 16 C	8.5	1780	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12/20/84 1425	5050 0000	2.10		50 F 10 C	8.8	1690	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RQ R 806.4 124.4 DWR-RP 19 N-END, KINGDON RD, FARM R0100																						
10/23/84 1045	5050 0000	-0.06		61 F 16 C	8.6	1520	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12/18/84 1430	5050 0000	1.32		49 F 9 C	8.4	1495	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RQ R 806.5 124.4 DWR-RP 09 S-END, KINGDON RD, FARM R0100																						
10/23/84 1040	5050 0000	-0.13		61 F 16 C	8.4	2163	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12/14/84 1440	5050 0000	1.25		49 F 9 C	8.4	2085	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
RQ R 807.5 124.7 DWR-RP 04 N-END, SARRENT RD, FARM AC100																						
10/24/84 1100	5050 0000	-1.78		61 F 16 C	8.3	1630	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
12/18/84 1145	5050 0000	-0.45		47 F 8 C	8.3	1780	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

TIME	SAMPLER ID	G.W. D	NO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER					
							CA	MG	NA	K	PERCENT CACO3	REACTANCE 504	VALUE CL	NOS	TURB TUR	SIOD	TDS SUM	TM MCM	SAR ASAR	REM
AQ P 007.7 124.7 DWR-RP 07 S-END, SARGENT RD, FARM AQ100																				
10/24/84	5050	0.13	61	F	R.6	1630	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1110	0000		16	C																
		1																		
12/19/84	5050	1.77	48	F	R.3	1580	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1200	0000		0	C																
		1																		
AQ P 809.6 125.9 DWR-RP 06 S-END, WOODBRIDGE RD AQ100																				
10/24/84	5050	-3.04	65	F	R.2	1340	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1430	0000		18	C																
		1																		
12/17/84	5050	-2.55	49	F	R.0	1650	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1035	0000		0	C																
		1																		
AQ P 913.5 127.2 DWR-RP 05 N-END, WALNUT GROVE RD AQ100																				
10/02/84	5050	-4.54	60	F	R.9	1316	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0930	0000		21	C																
		1																		
12/13/84	5050	-4.98	52	F	R.7	1316	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1305	0000		11	C																
		1																		
02/21/85	5050	-4.36				1209	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0630	0000																			
		1																		
05/01/85	5050	-3.83				1298	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1215	0000																			
		1																		
06/04/85	5050	-4.23				1396	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1144	0000																			
		1																		
07/01/85	5050	-4.86				1304	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1215	0000																			
		1																		
07/31/85	5050	-5.12				1308	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1230	0000																			
		1																		
AQ P 916.6 127.0 DWR-RP 04 N-END, TWIN CITIES RD AQ100																				
10/01/84	5050	-0.44	69	F	R.3	264	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1345	0000		21	C																
		1																		
12/11/84	5050	0.64	53	F	R.1	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1520	0000		12	C																
		1																		
02/20/85	5050	0.42				281	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1345	0000																			
		1																		
04/24/85	5050	-0.12				266	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0915	0000																			
		1																		
06/03/85	5050	-0.86				286	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1200	0000																			
		1																		
07/01/85	5050	-0.22				297	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1050	0000																			
		1																		
07/31/85	5050	0.72				292	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0945	0000																			
		1																		
AQ P 916.7 125.0 DWR-RP 03 S-END, TWIN CITIES RD AQ100																				
10/01/84	5050	-1.78	69	F	R.9	744	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1410	0000		21	C																
		3																		
12/11/84	5050	-1.61	53	F	R.3	726	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1600	0000		12	C																
		1																		
AQ P 917.0 124.3 DWR-RP 02 S-END, FARM RD AQ100																				
10/01/84	5050	-4.30	73	F	R.1	662	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1144	0000		23	C																
		1																		
12/07/84	5050	-5.31	57	F	R.9	682	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1515	0000		14	C																
		1																		
AQ P 918.4 120.3 DWR-RP 01 N-END, DIEPSEN-FARM RD AQ100																				
10/01/84	5050	-4.00	69	F	R.7	957	--	--	--	--	--	--	--	--	--	--	--	--	--	--
0945	0000		21	C																
		1																		
12/07/84	5050	-3.88	53	F	R.3	928	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1230	0000		12	C																
		1																		

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. D	DO SAT	TEMP °C	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				SAR	REP	
							Ca	Mg	Na	K	CaCO3	SO4	CL	NO3	SiO2	PHOS	TH	SAR			REP
NO V 803.6 129.9 AG-OR W-ED EMPIRE T S-SI ALTHORNTON BCI00																					
02/06/85	5050		9.8	42.8F	7.3	2500	--	--	252	--	--	--	885	--	--	--					
0905	5050		7.9	6.0C		2610			10.98				19.32	--	264	--				5	
03/06/85	5050		7.8	50.9F	7.3	2200	--	--	226	--	--	--	597	--	--	--				5	
0945	5050		6.8	10.9C		2330			9.83				36.44	--	144	--				5	
NO V 807.9 134.7 AGRI-OR TYLER IS AT VORPANS LNDC A0100																					
03/27/85	5050		7.8	52.7F	6.8	740	--	--	42	--	--	--	54	--	--	--				5	
1245	5050		7.1	11.9C		743			2.02				2.37	--	294	--				5	
NO V 813.2 135.7 AGRI-OR GRAND IS NR WALKER LNDC A0100																					
02/06/85	5050		7.5	52.7F	7.1	550	--	--	43	--	--	--	35	--	--	--				5	
1030	5050		6.9	11.9C		576			1.87				.99	--	344	--				5	
03/06/85	5050		5.3	34.3F	6.9	460	--	--	35	--	--	--	29	--	--	--				5	
1100	5050		5.0	12.9C		468			1.92				.62	--	214	--				5	
G3 L 033.4 048.4 EARLE LR STA NO 1A 608C2																					
11/07/84	5050		7.3	45.5F	8.9	766	10	40	104	27	430	--	11	--	--	--	190	3.3		5	
1235	5050		7.3	7.9C	8.6	790	.50	3.29	4.52	.69	8.59	--	.31	--	14F	--	0	7.4		5	
04/23/85	5050		8.0	48.8F	9.1	789	10	41	104	--	434	--	10	--	--	--	194	3.2		5	
1435	5050		8.1	8.2C	8.8	777	.50	3.37	4.52	--	8.67	--	.28	--	24F	--	0	7.7		5	
06/14/85	5050		8.9	69.3F	6.9	761	10	42	105	--	438	--	10	--	--	--	198	3.2		5	
1350	5050		11.8	20.7C	6.8	760	.50	3.45	4.57	--	8.75	--	.28	--	14F	--	0	7.7		5	
08/02/85	5050		7.8	68.0F	9.1	770	10	42	107	28	438	--	11	--	--	--	198	3.3		5	
1355	5050		10.2	20.0C	9.0	768	.50	3.45	4.65	.72	6.75	--	.31	--	14F	--	0	7.9		5	
09/19/85	5050		8.0	39.5F	9.1	790	10	42	104	--	448	--	10	--	--	--	198	3.2		5	
1335	5050		95	15.3C	9.0	804	.50	3.45	4.52	--	4.95	--	.28	--	14F	--	0	7.7		5	
G3 L 035.2 045.1 EARLE LR STA NO 11 608C2																					
11/07/84	5050		8.2	45.5F	8.9	746	10	40	105	28	430	--	11	--	--	--	190	3.3		5	
0910	5050		8.2	7.9C	8.8	792	.50	3.29	4.57	.72	8.59	--	.31	--	14F	--	0	7.8		5	
04/23/85	5050		9.8	47.5F	8.9	760	10	41	103	--	433	--	10	--	--	--	194	3.2		5	
0930	5050		100	8.6C	8.7	777	.50	3.37	4.48	--	8.63	--	.28	--	24F	--	0	7.6		5	
06/14/85	5050		8.4	65.3F	8.9	764	10	42	105	--	440	--	10	--	--	--	198	3.2		5	
0835	5050		107	16.0C	8.8	782	.50	3.45	4.57	--	8.79	--	.28	--	14F	--	0	7.8		5	
08/14/85	5050		2.9	32.0F	6.9	760	10	41	104	--	433	--	10	--	--	--	194	3.2		5	
0845	5050		3.1	11.1C	8.7	782	.50	3.37	4.52	--	8.65	--	.28	--	14F	--	0	7.7		5	
08/02/85	5050		7.7	67.6F	9.1	775	10	42	108	--	439	--	10	--	--	--	198	3.3		5	
0835	5050		101	19.8C	9.0	790	.50	3.45	4.61	--	6.77	--	.28	--	14F	--	0	7.8		5	
08/02/85	5050		0.3	35.6F	8.7	779	10	41	102	--	423	--	10	--	--	--	194	3.2		5	
0835	5050		3	15.1C	8.9	776	.50	3.37	4.44	--	8.45	--	.28	--	34F	--	0	7.4		5	
09/19/85	5050		7.2	99.0F	9.0	786	10	43	105	--	449	--	10	--	--	--	202	3.2		5	
0825	5050		85	19.0C	9.0	805	.50	3.54	4.57	--	6.97	--	.28	--	24F	--	0	7.7		5	
09/19/85	5050		7.6	49.0F	9.0	787	10	43	106	--	447	--	10	--	--	--	202	3.2		5	
0835	5050		00	15.0C	9.0	806	.50	3.54	4.61	--	8.93	--	.26	--	24F	--	0	7.8		5	
G3 L 035.5 046.8 EARLE LR STA NO 24 608C2																					
04/02/85	5050		7.9	66.9F	9.1	766	10	42	108	28	437	--	10	--	--	--	198	3.3		5	
0930	5050		102	19.4C	9.0	786	.50	3.45	4.61	.72	8.73	--	.28	--	24F	--	0	7.8		5	
08/02/85	5050		0.1	36.6F	8.7	781	11	41	105	27	425	--	10	--	--	--	196	3.3		5	
0930	5050		1	13.8C	8.9	760	.55	3.37	4.57	.69	8.49	--	.28	--	14F	--	0	7.7		5	
G3 L 036.9 044.7 EARLE LR STA NO 104 108C2																					
11/07/84	5050		7.4	41.4F	9.0	779	10	41	104	27	428	--	11	--	--	--	194	3.2		5	
1145	5050		70	5.2C	8.9	796	.50	3.37	4.52	.69	8.55	--	.31	--	14F	--	0	7.7		5	
04/23/85	5050		9.3	46.7F	9.1	757	10	41	103	--	432	--	10	--	--	--	194	3.2		5	
1225	5050		97	9.3C	8.8	775	.50	3.37	4.44	--	8.63	--	.26	--	24F	--	0	7.6		5	
06/14/85	5050		8.7	66.9F	9.0	767	10	42	106	--	440	--	10	--	--	--	198	3.3		5	
1229	5050		113	19.4C	8.8	785	.50	3.45	4.61	--	8.79	--	.28	--	14F	--	0	7.8		5	
08/02/85	5050		7.7	68.0F	9.1	792	10	42	106	29	438	--	11	--	--	--	198	3.3		5	
1240	5050		101	20.0C	9.0	796	.50	3.45	4.61	.74	8.75	--	.31	--	14F	--	0	7.8		5	

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAT	G.W. D	NO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				REP
							CA	MG	NA	K	CACF3	SO4	CL	NO3	TDS SUM	TH	F	TDS SUM	TH	NCN	LAB ASAP		
FCRC2 CONTINUED																							
09/19/85 1210	5050 5050	0	8.2 97	59.0F 15.0C	9.1 9.0	789 805	10 .50	43 3.54	106 4.63	-- A	450 8.00	-- .28	10 --	-- 14F	-- --	-- --	-- --	-- --	202 0	3.2 7.8			5
FCRC2																							
09/19/85 1150	5050 4050	0	8.5 90	17.6F 14.2C	9.1 9.0	800 814	10 .50	43 3.54	106 4.7C	-- A	455 9.00	-- .31	11 --	-- 14F	-- --	-- --	-- --	-- --	202 0	3.3 8.0			5
FCRC2																							
11/07/84 1103	5050 5050	0	7.6 71	40.6F 4.8C	9.0 8.8	795 805	10 .50	42 3.45	110 4.70	28 .72	441 8.81	-- .32	11 --	-- 14F	-- --	-- --	-- --	-- --	198 0	3.4 8.1			5
04/23/85 1110	5050 5050	0	9.2 98	50.4F 10.2C	9.1 8.8	755 763	10 .50	41 3.27	103 4.48	-- A	426 8.51	-- .28	10 --	-- 24F	-- --	-- --	-- --	-- --	194 0	3.2 7.6			5
06/14/85 1135	5050 5050	0	8.9 118	68.7F 10.6C	9.0 8.9	776 791	10 .50	42 3.45	107 4.65	-- A	446 8.91	-- .28	10 --	-- 14F	-- --	-- --	-- --	-- --	198 0	3.3 7.9			5
08/02/85 1200	5050 5050	0	7.1 93	66.0F 20.0C	9.1 9.1	815 826	10 .50	44 3.62	112 4.87	15 .38	465 9.20	5.0 .10	12 .34	4.1 1.07	14	--	--	517 4.81	206 0	3.4 8.2			5
09/16/85 1120	5050 5050	0	9.3 106	55.8F 13.2C	9.3 9.1	835 845	10 .50	45 3.70	113 4.92	-- A	472 9.43	-- .31	11 --	-- 14F	-- --	-- --	-- --	210 0	3.4 8.3			5	
FCRC2																							
11/07/84 1005	5050 5050	0	7.8 71	41.0F 5.0C	9.0 8.8	815 835	9.0 .45	44 3.42	114 4.98	30 .77	464 9.27	-- .34	12 --	-- 14F	-- --	-- --	-- --	204 0	3.5 8.4			5	
04/23/85 1003	5050 5050	0	9.5 101	50.0F 10.0C	8.9 8.7	750 760	9.0 .45	41 3.37	105 4.57	-- A	436 8.71	-- .28	10 --	-- 24F	-- --	-- --	-- --	191 0	3.3 7.8			5	
06/14/85 1035	5050 5050	0	8.4 110	66.0F 20.0C	9.1 8.8	784 806	9.0 .45	43 3.54	105 4.74	-- A	454 9.07	-- .28	10 --	-- 14F	-- --	-- --	-- --	200 0	3.4 4.1			5	
08/02/85 1040	5050 5050	0	7.6 98	66.4F 10.1C	9.1 9.1	821 840	8.0 .40	46 3.78	117 5.0C	33 .7C	470 9.39	-- .35	11 --	-- 14F	-- --	-- --	-- --	209 0	3.5 8.6			5	
09/16/85 1010	5050 5050	0	8.1 92	55.4F 13.0C	9.3 9.2	860 871	8.0 .40	48 3.95	114 5.1F	-- A	494 9.87	-- .34	12 --	-- 14F	-- --	-- --	-- --	218 0	3.5 8.7			5	
FCRC1																							
04/22/84 1110	4050 5050	3.34	10.0 103	46.2F 9.0C	7.5 8.6	64 62	5.0 .25	3.0 .25	3.0 .13	-- A	29 .58	-- .06	2.0 --	-- 44F	-- --	-- --	-- --	25 0	0.3 0.1			5	
FCRC1																							
04/22/85 1440	5050 5050	0	8.2 110	69.8F 21.0C	8.2 8.3	209 206	20 1.00	10 .82	8.0 .35	-- A	112 2.24	-- .03	1.0 --	-- 44F	-- --	-- --	-- --	91 0	0.4 0.6			5	
FCRC1																							
04/22/85 1405	5050 5050	0	7.7 90	66.2F 19.0C	7.1 8.2	93 80	8.0 .30	5.0 .41	3.0 .17	-- A	44 .88	-- .06	2.0 --	-- 64F	-- --	-- --	-- --	36 0	0.3 0.2			5	
FCRC1																							
04/22/85 1240	5050 4050	2E	8.5 102	59.0F 14.0C	7.6 8.4	74 73	5.0 .25	5.0 .41	3.0 .13	-- A	41 .82	-- .00	.0 --	-- 64F	-- --	-- --	-- --	33 0	0.2 0.2			5	
FCRC1																							
11/14/84 1320	5050 4050	0	10.6 105	48.2F 9.0C	8.3 8.5	487 484	24 1.20	8.0 .66	7.5 3.26	5.3 .14	170 3.40	28 .85	30 .04	2.3 360A	4	--	--	322 275	93 0	3.4 5.7			5
03/14/85 1005	5050 5050	0	9.5 92	44.4F 8.0C	8.4 8.4	1180 1160	12 .60	4.0 .33	252 10.9	-- A	323 6.45	-- 3.33	118 --	-- 560A	.0	--	--	46 0	16.2 25.7			5	
05/07/85 1303	5050 5050	0	8.3 98	42.8F 17.0C	8.4 8.4	1370	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	
09/20/85 0943	5050 4050	0	9.9 111	58.1F 14.5C	9.1 9.0	1940 1980	10 .30	4.0 .33	425 13.4	-- A	527 10.53	-- .51	206 --	-- 575A	2.4	--	--	44 0	27.9 44.2			5	
FCRC1																							
11/14/84 1415	5050 5050	0	11.5 114	48.2F 9.0C	8.3 8.3	390	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	
01/23/85 1410	5050 5050	0	12.2 107	39.2F 4.0C	8.2 8.0	400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	
03/13/85 1510	5050 4050	0	10.4 103	48.2F 9.0C	8.3 8.3	344	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O	DO CAT	TEMP	FIELD		MINERAL CONSTITUENTS IN							MILLIGRAMS PER LITER WILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER						REMARKS
					LABORATORY PM	EC	CA	MG	NA	P	CaCO3	SO4	CI	NO3	TERR	SI02	TRC	PM	NCM	ASAP				
F4		1500.01		SUSAN R NB LITCHFIELD										ECHO CONTINUED										
05/08/85	5050			6.7	60.8F	4.1	405	25	12	46	--	161	--	5.0	--				112	1.0				
1025	5050			16.1	16.0C	4.4	417	1.25	.90	2.0C	20	23	47	3.22	.23	7.4	--		0	3.3				
07/10/85	5050			8.6	87.8F	8.3	465	--	--	--	--	--	--	--	--	4.4F	--							
1440	5050			132	31.0C																			
G4		1600.01		SUSAN R A LASSEN ST RR										GCPRO										
11/14/84	5050			1.66	11.4	41.0F	7.9	120	--	--	--	--	--	--	--	5.4F	--							
1520	5050			4.4	103	5.0C																		
01/23/85	5050			1.33	12.1	33.8F	4.0	172	--	--	--	--	--	--	--	1.4F	--							
1115	5050			1.1F	95	1.0C																		
03/13/85	5050			1.71	9.9	44.6F	8.1	132	--	--	--	--	--	--	--	5.4F	--							
1350	5050			4.8	9.4	7.0C																		
05/07/85	5050			2.04	9.8	50.0F	7.5	89	--	--	--	--	--	--	--	7.4F	--							
0930	5050			7.9	100	10.0C																		
07/11/85	5050			0.58	8.5	68.2F	8.1	188	18	10	8.0	--	9.6	--	1.0	--			8.6	0.4				
0955	5050			3.6	106	19.0C	8.3	186	.90	.82	.35	1.92			.03	1.4	--		0	0.5				
									43	40	17													
09/20/85	5050			0.70	8.3	51.8F	8.3	179	--	--	--	--	--	--	--	2.4F	--							
1025	5050			5.7	91	12.0C																		
G4		2001.00		WILLOW C A RD 4-27 NB LITCHFIELD										GCPRO										
11/14/84	5050			11.7	47.3F	8.4	358	--	--	--	--	--	--	--	--	5.4F	--							
1425	5050			4.1	115	8.5C																		
01/23/85	5050			12.8	37.4F	8.4	344	--	--	--	--	--	--	--	--	9.4F	--							
1425	5050			4.0	169	3.0C																		
03/13/85	5050			9.6	48.2F	8.6	350	18	11	3.8	--	15.4	--	6.0	--				9.0	1.7				
1500	5050			6.0	9.5	9.0C	8.4	336	.90	.90	1.63	3.08			.17	4.5.4	--		0	2.9				
									26	26	46													
05/07/85	5050			9.6	37.2F	8.4	398	--	--	--	--	--	--	--	--	9.4F	--							
1015	5050			1.4	107	14.0C																		
07/10/85	5050			9.3	80.6F	8.6	366	20	14	43	7.7	188		6.0	6.0	.0	.1	--	235	108				
1435	5050			9.3	133	27.0C	7.4	373	1.00	1.15	1.87	.20	3.76		.12	.17	.00	1.4F	210	0				
									24	27	4.4	5	93		3	4	0		0	9.3				
09/18/85	5050			9.9	68.2F	8.7	304	--	--	--	--	--	--	--	--									
1445	5050			1.4	122	19.0C										4.4F	--							
F6		1200.00		LONG VLY C RR DOYLE										GCPRO										
01/23/85	5050			11.6	39.2F	8.1	396	22	8.0	52	--	10.4	--	19	--	.5	--		8.8	2.4				
1250	5050			103	4.0C	7.8	410	1.10	.88	2.26	2.16				.42	11.8	--		0	3.8				
									27	14	56													
G6		1700.00		LONG VLY CR NB WALLELUJAH JCT										GCPRO										
11/14/84	5050			11.4	46.4F	8.4	288	--	--	--	--	--	--	--	--	1.4F	--							
1210	5050			5E	114	8.0C																		
03/14/85	5050			2.51	10.5	44.6F	8.1	364	--	--	--	--	--	--	--	30.4F	--							
0900	5050			4.0	102	7.0C																		
05/07/85	5050			8.3	44.4F	8.5	294	--	--	--	--	--	--	--	--	5.4F	--							
1140	5050			3E	103	15.0C																		
07/11/85	5050			2.19	8.1	64.4F	8.0	341	18	6.0	8.4	3.3	90		120	26	1.2	.9	3.4	70				
0815	5050			.7	101	19.0C	7.2	349	.90	.49	1.63	.67	1.80		2.50	.73	.62	4.4F	317	0				
									17	9	72	2	3.4		50	14	0		0	4.4				
09/20/85	5050			8.6	44.1F	8.3	310	--	--	--	--	--	--	--	--									
0415	5050			1E	89	9.5C										3.4F	--							
G7		1645.00		TRICKEE R A TAMNE CTV										GCPRO										
10/14/84	2163			2.16	7.7	48 F	7.1	92	--	--	--	--	--	--	--				5.8					
1000	5050			83	9 C											7.4	--							
04/23/85	5050			7.4	44.4F	7.0	92	12	3.0	8.0	--	4.4	--	4.0	--				4.7	4.2				
0450	5050			.40	6.9C	7.4	100	.80	.25	.15		.8F		.11		0.4	--		0	0.4				
								50	21	24														
08/14/85	2143			4.11	6.4	67.8F	7.2	104	--	--	--	--	--	--	--				50					
1340	5050			9C	19.0C											7.4	--							
09/18/85	5050			3.04	6.8	52.2F	7.4	110	9.0	3.0	6.0	1.7	42		2.0	2.0	.1	.0	50	35				
0445	5050			77	11.2C	8.2	96	.45	.25	.26	.64	.8.4		.64	.68	.00	1.4	--	40	0				
								45	25	26	4	40		4	4	0			0	0.4				

TABLE C-1 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.W. O	OD SAT	TEMP	FIFLO LABORATORY PH EC	MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER						
						Ca	Mg	Na	K	CaCO3	SO4	Cl	NO3	THPA	STOS	TOS SUM	TH MCH	S4P ASAP	RFM	
G8 2300.00 CARSON R W F A WOODBORNS G0440																				
04/22/85	5050	10.3	36	F 7.4	47	6.0	2.0	3.0	---	22	---	1.0	---	---	---	45	23	0.3	E	
0810	5050	91	2	C 6.1	50	.30	.16	.13	---	.44	---	.03	---	14	---	1	0.1	---	---	
						51	27	22												
09/17/85	5050	6.9	44.2F	7.9	85	8.0	2.0	4.0	1.5	1.9	2.0	6.0	.3	.0	---	33	26	0.3	E	
0945	5050	94	9.0C	7.9	74	.40	.16	.17	.04	.38	.04	.17	.00	---	35	9	0.1	T	5	
						92	21	22	5	84	7	29	0							
G8 3420.20 CARSON R E F A HWY 4 G0340																				
10/31/84	2163	11.8	37	F 7.5	112	---	---	---	---	---	---	---	---	---	---	61	---	---	---	
0910	5050	109E	105	3	C									34	---	---	---	---	---	
04/22/85	5050	10.2	39.5F	7.4	63	10	3.0	6.0	---	37	---	1.0	---	---	---	70	38	0.4	E	
0915	5050	95	4.2C	6.9	89	.50	.25	.26	.74	.03	24	---	---	---	---	1	0.3	---	---	
						46	21	29	3	85	10	5	0							
08/14/85	2163	7.4	54.7F	6.0	132	---	---	---	---	---	---	---	---	---	---	78	---	---	---	
0745	5050	84	12.0C											84	---	---	---	---	---	
09/17/85	5050	1.24	7.7	56.8F	8.2	130	11	3.0	8.0	1.5	50	6.0	2.0	.1	.1	---	58	40	0.6	---
1330	5050	90	11.8C	8.2	114	.55	.25	.35	.04	1.00	.12	.06	.00	1A	---	62	0	0.5	---	
						46	21	29	3	85	10	5	0							
G9 2440.00 WALKER R W BL LITTLE WALKER R G0200																				
04/22/85	5050	9.6	45.5F	7.9	145	14	3.0	16	---	61	---	3.0	---	---	---	103	48	1.0	---	
1045	5050	101	7.5C	6.6	157	.70	.25	.7C	1.22	.08	5A	---	---	---	---	0	1.0	---	---	
						42	15	42												
09/16/85	5050	0.88	8.0	50.0F	8.2	250	14	3.0	31	3.0	87	18	8.0	.1	.4	---	144	48	1.0	---
1000	5050	90	10.0C	8.4	236	.70	.25	1.33	.08	1.74	.37	.23	.00	---	130	0	2.3	---	---	
						29	11	57	3	74	16	10	0							
G9 3200.00 WALKER R E F A BRIDGEPORT G0140																				
10/30/84	2163	0.52	9.1	44	F 8.6	153	---	---	---	---	---	---	---	---	---	69	---	---	---	
1620	5050	31	93	7	C									174	---	---	---	---	---	
04/22/85	5050	9.0	52	F 7.8	172	19	4.0	14	---	77	---	2.0	---	---	---	123	64	0.6	---	
1145	5050	103	11	C 7.3	190	.95	.33	.61	1.54	.06	1A	---	---	---	---	0	0.6	---	---	
						50	17	32												
08/14/85	2163	1.85	5.5	65.7F	8.6	179	---	---	---	---	---	---	---	---	---	125	---	---	---	
0945	5050	74	18.7C											84	---	---	---	---	---	
09/17/85	5050	0.88	7.0	54.3F	7.9	210	21	4.0	13	3.3	81	13	3.0	2.4	.1	---	144	69	0.7	E
1100	5050	93	85	13.0C	6.3	201	1.05	.33	.57	.08	1.62	.27	.08	.04	154	---	108	0	0.9	T
						52	16	26	4	81	13	4	2							

TABLE C-2
MINOR ELEMENT ANALYSES OF SURFACE WATER

Lab and Sampler Agency Code

5050 - California Department of Water Resources

Abbreviations

TIME	- Pacific Standard Time on a 24-hour clock
Disch	- Instantaneous discharge in cubic feet per second (E = Estimated)
EC	- Electrical conductance in microsiemens at 25° C
TEMP	- Water temperature at time of sampling in degrees Fahrenheit (F) or Celsius (C)
pH	- Measure of acidity or alkalinity of water
CHROM (ALL)	- All chromium
CHROM (HEX)	- Hexavalent chromium
D	- Dissolved
T	- Total

TABLE C-2
MINOR ELEMENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP L&R	DEPTH	DISCH EC	TEMP PM	ARSENIC	CONSTITUENTS BARIUM CADMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
40 Y 810.4 147.4 ULATIS CR AT BROWN RD A0240											
11/13/84	5050			15.0C		--	0.00	0	0.01	0	0.01
1220	5050	320		7.5	0.00	0	--	0.18	0	0.00	0
11/28/84	5050			11.5C		--	--	--	--	0.000	0
1200	5050	240		7.7	--	--	--	--	--	--	--
03/11/85	5050			14.5C		--	0.00	0	0.00	0	0.00
1200	5050	440		8.0	0.00	0	--	0.14	0	0.02	0
40 Y 821.9 190.8 ULATIS CR AT HAWKINS RD A0240											
11/28/84	5050			11.5C		--	--	--	--	0.000	0
1200	5050	240		7.7	--	--	--	--	--	--	--
A0 9220.00 BARKER SLU NR DOZIER A0240											
11/13/84	5050			15.0C		--	0.00	0	0.01	0	0.01
1115	5050	360		8.1	0.00	0	--	0.10	0	0.03	0
11/28/84	5050			11.5C		--	--	--	--	0.000	0
1105	5050	260		7.5	--	--	--	--	--	--	--
03/11/85	5050			13.5C		--	0.00	0	0.00	0	0.00
1100	5050	600		8.3	0.00	0	--	0.05	0	0.02	0
A2 0150.00 SQUAN C L A SHASTA LK A2080											
04/17/85	5050			25 E 13.0C		--	--	0.51	T	--	--
1020	5050	113		4.5	--	--	--	--	--	--	--
05/23/85	5050			25 E 14.0C		--	--	0.72	T	--	--
1220	5050	154		4.1	--	--	--	--	--	--	--
07/25/85	5050			5 E 25.5C		--	--	1.2	T	--	--
1130	5050	251		3.6	--	--	--	--	--	--	--
08/21/85	5050			5 E 14.5C		--	--	1.6	T	--	--
0855	5050	315		3.5	--	--	--	--	--	--	--
A3 1110.00 STONY C RL BLACK BUTTE DN NR ORLAND A1340											
09/13/85	5050			20.0C		--	--	--	--	--	--
0840	5050	382		8.1	0.00	0	--	--	--	--	--
A5 1253.00 STONY C AR GRINDSTONE C A1481											
09/13/85	5050			5 E 19.0C		--	--	--	--	--	--
0930	5050	393		8.3	0.00	0	--	--	--	--	--
AR L 857.9 240.6 CLEAR LK LO ARM CL3 A0402											
10/25/84	5050			14.4C		--	0.00	T	0.00	T	0.000
1100	5050	0	232	7.9	0.00	T	0.00	T	0.51	T	0.000
03/19/85	5050			9.8C		--	0.00	T	0.00	T	0.000
1100	5050	0	252	7.2	0.00	T	0.00	T	0.22	T	0.01
AR L 900.7 241.7 CLEAR LK 23 DAKS ARM CL4 A0402											
10/23/84	5050			14.1C		--	0.00	T	0.00	T	0.000
1145	5050	0	222	8.0	0.00	T	0.00	T	0.68	T	0.02
03/19/85	5050			9.3C		--	0.00	T	0.00	T	0.000
1145	5050	0	242	7.8	0.00	T	0.00	T	0.24	T	0.01
AR L 903.8 251.9 CLEAR LK 15-UP ARM CL-1 A0402											
10/23/84	5050			14.1C		--	0.00	T	0.00	T	0.000
1015	5050	0	210	7.9	0.00	T	0.00	T	1.4	T	0.04
03/19/85	5050			11.0C		--	0.00	T	0.00	T	0.000
1015	5050	0	211	7.6	0.00	T	0.00	T	0.47	T	0.01
A8 1500.00 KELSEY C NR KELSEYVILLE A0404											
10/04/84	5050			14.0C		--	0.00	T	0.00	T	0.000
0620	5050	231		7.3	--	0.00	T	0.20	T	0.01	T
04/03/85	5050			10.5C		--	0.00	T	0.00	T	0.000
0730	5050	235		7.5	--	0.00	T	0.16	T	0.01	T
07/09/85	5050			23.0C		--	0.00	T	0.00	T	0.000
0555	5050	335		7.8	--	0.00	T	0.08	T	0.01	T
09/30/85	5050			20.5C		--	0.00	T	0.00	T	0.000
1400	5050	240		7.6	--	0.00	T	0.07	T	0.00	T
AR 5631.00 KELSEY C AR HIGH VLY C A0404											
10/04/84	5050			15.0C		--	0.00	T	0.00	T	0.000
0840	5050	120		7.3	--	0.00	T	0.17	T	0.00	T
04/01/85	5050			12.0C		--	0.00	T	0.00	T	0.000
1145	5050	149		7.7	--	0.00	T	0.28	T	0.01	T
07/09/85	5050			22.0C		--	0.00	T	0.00	T	0.000
1200	5050	150		8.0	--	0.00	T	0.16	T	0.01	T
09/30/85	5050			14.0C		--	0.01	T	0.00	T	0.000
1130	5050	132		7.5	--	0.00	T	0.12	T	0.00	T
AR 5610.00 HIGH VALLEY C AR KELSEY C A0404											
10/04/84	5050			14.5C		--	0.00	T	0.00	T	0.000
0900	5050	330		7.4	--	0.00	T	0.16	T	0.02	T
04/01/85	5050			12.0C		--	0.00	T	0.00	T	0.000
1130	5050	148		7.8	--	0.00	T	0.16	T	0.01	T
07/09/85	5050			20.5C		--	0.00	T	0.00	T	0.000
1130	5050	340		7.9	--	0.00	T	0.10	T	0.01	T

TABLE C-2 (CONTINUED)
MINOR ELEMENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP °F	ARSENIC	CONSTITUENTS NITRUM CADMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
AB 3610.00 HIGH VALLEY C & KELSEY C											
ADAD4 CONTINUED											
09/30/83 1100	5030		353 15.3C 7.3	---	0.00 T	---	0.00 T	0.00 T	0.01 T	0.000 T	0.00 T
AB 3610.00 BOTTLE ROCK PWP PLANT NR GLENHROOK											
ADAD4											
07/27/85 1430	5030			0.01 T	---	---	0.02 T	---	---	0.000 T	---
08/15/85 1330	5030			0.31 T	0.00 T	---	0.24 T	0.00 T	0.19 T	0.000 T	0.01 T
08/15/85 1340	5030			0.05 T	0.00 T	---	0.01 T	0.00 T	0.10 T	0.001 T	0.00 T
09/03/83 1115	5030			0.40 T	0.00 T	---	0.08 T	0.00 T	0.10 T	0.015 T	0.02 T
09/12/85 5030				0.21 T	0.00 T	---	0.04 T	0.00 T	0.13 T	0.003 T	0.00 T
09/12/85 5030				0.71 T	0.00 T	---	0.04 T	0.00 T	0.76 T	0.000 T	0.00 T
AB 3701.00 KELSEY C & GLENHROOK											
ADAD4											
10/04/84 0715	5030		111 12.0C 7.3	---	0.00 T	---	0.00 T	0.00 T	0.00 T	0.000 T	0.00 T
04/01/83 1430	5030		102 14.3C 7.3	---	0.00 T	---	0.00 T	0.00 T	0.01 T	0.000 T	0.00 T
07/09/85 1345	5030		122 19.3C 7.8	---	0.00 T	---	0.00 T	0.01 T	0.00 T	0.000 T	0.00 T
09/30/85 1300	5030		120 13.0C 7.4	---	0.00 T	---	0.00 T	0.00 T	0.00 T	0.000 T	0.01 T
AB 3710.00 ALDER C & GLENHROOK											
ADAD4											
10/04/84 0830	5030		73 11.0C 7.2	---	0.00 T	---	0.00 T	0.00 T	0.01 T	0.000 T	0.00 T
04/01/83 1400	5030		117 14.0C 7.9	---	0.00 T	---	0.00 T	0.00 T	0.01 T	0.000 T	0.00 T
07/09/85 1230	5030		88 23.0C 7.7	---	0.00 T	---	0.00 T	0.00 T	0.01 T	0.000 T	0.01 T
09/30/85 1230	5030		80 16.3C 7.8	---	0.00 T	---	0.01 T	0.00 T	0.01 T	0.000 T	0.00 T
BD 7020.00 SAN JOAQUIN R NR VERNALIS											
B0100											
10/25/84 0810	5030		330 13.3C 7.4	---	---	---	---	---	---	0.000 T	---
11/29/84 0945	5030		380 11.3C 7.1	---	---	---	---	---	---	0.000 T	---
12/12/84 0835	5030		380 11.0C 7.3	---	---	---	---	---	---	0.000 T	---
01/30/83 0750	5030		480 8.0C 7.4	---	---	---	---	---	---	0.001 T	---
02/22/85 1310	5030		385 9.4 7.4	---	---	---	---	---	---	0.001 T	---
02/27/85 0815	5030		590 12.3C 7.4	0.00 T	0.00 T	0.00 T	0.00 T	0.00 T	0.00 T	0.000 T	0.02 T
03/27/85 0845	5030		790 12.0C 7.4	---	---	---	---	---	---	0.002 T	---
BB T 702.2 135.8 WALLER SL & PP											
B07C1											
02/13/85 0750	5030		695 11.3C 7.7	---	---	---	---	---	---	0.000 T	---
08/13/85 0815	5030		2100 1A.0C 8.4	---	---	---	---	---	---	0.000 T	---
BO C 749.0 133.8 DELTA MEMOTTA CA & LINDEN R											
B0100											
10/25/84 1000	5030		260 16.0C 7.8	---	---	---	---	---	---	0.000 T	---
11/29/84 1215	5030		320 11.0 7.4	---	---	---	---	---	---	0.000 T	---
12/12/84 1015	5030		310 11.3C 7.2	---	---	---	---	---	---	0.000 T	---
01/30/83 0830	5030		380 7.3C 7.3	---	---	---	---	---	---	0.001 T	---
02/27/85 1015	5030		325 19.0C 7.5	---	---	---	---	---	---	0.000 T	---
03/27/85 0945	5030		320 12.0C 7.4	---	---	---	---	---	---	0.000 T	---
BO C 753.5 129.8 MIDDLE R & BORDEN HWY											
B0100											
02/06/83 0830	5030		390 6.3C 7.3	---	---	---	---	---	---	0.000 T	---
03/06/85 0800	5030		290 10.0C 7.4	---	---	---	---	---	---	0.000 T	---
BO C 758.4 134.8 ROCK SL & OLD RIVER											
B0100											
01/30/83 1015	5030		290 8.3C 7.2	---	---	---	---	---	---	0.001 T	---
02/27/85 1145	5030		260 1A.0C 7.5	---	---	---	---	---	---	0.000 T	---

TABLE C-2 (CONTINUED)
MINOR ELEMENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP °F	PH	ARSENIC	CONSTITUENTS BARIUM CADMIUM	IN MILLIGRAMS CHROM (HEX) COPPER	PER LITER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
RQ 0 758.4 134.8 ROCK SL & OLD RIVER												
RQ100 CONTINUED												
03/27/85 1115	5050 5050		260	12.0C 7.4		--	--	--	--	--	0.000	n
RQ 0 814.6 139.5 MINER SLU & BYNE ISL SCH HWY												
A0100												
10/24/84 1215	5050 5050		146	90 F 7.6		--	--	--	--	0.02	n	0.000
01/25/85 1330	5050 5050		204	45 F 7.4		--	--	--	--	0.02	n	0.001
04/11/85 0900	5050 5050		187	63 F 7.6		--	--	--	--	0.02	n	0.000
07/29/85 1230	5050 5050		165	21.5C 7.6		--	--	--	--	0.00	n	--
RQ 0 815.8 146.2 LINDSAY SLU & HASTINGS CUT												
A0100												
10/24/84 0945	5050 5050		402	58 F 7.8		--	--	--	--	0.01	o	0.000
11/15/84 1045	5050 5050		360	12.5C 7.5		--	--	--	--	--	0.000	n
11/16/84 1200	5050 5050		360	54 F 7.6		--	--	--	--	0.02	n	0.000
12/05/84 1045	5050 5050		440	10.5C 7.4		--	--	--	--	0.02	n	0.000
12/06/84 1050	5050 5050		450	11.0C 7.3		--	--	--	--	--	0.000	n
01/25/85 1045	5050 5050		542	43 F 7.4	0.00	o	--	0.00	0	0.00	0	0.00
02/13/85 1150	5050 5050		360	10.5C 7.3	--	--	--	--	--	--	0.000	n
02/22/85 1030	5050 5050		435	52 F 7.4	0.00	o	--	0.00	0	0.01	0	0.00
03/13/85 1145	5050 5050		495	12.5C 7.6	--	--	--	--	--	--	0.000	o
03/27/85 1200	5050 5050		489	50 F 8.0	--	--	--	--	--	0.05	n	0.000
04/11/85 1130	5050 5050		510	66 F 8.0	--	--	--	--	--	0.00	o	0.000
05/17/85 0930	5050 5050		588	66 F 8.0	--	--	--	--	--	0.04	n	0.000
07/29/85 1010	5050 5050		977	20.5C 8.0	--	--	--	--	--	0.02	n	--
08/15/85 0745	5050 5050		363	18.0C 8.0	0.00	o	--	0.00	0	0.01	0	0.00
09/12/85 1130	5050 5050		540	16.0C 7.7	--	--	--	--	--	0.02	o	--
RQ 0 817.8 144.8 CACHE SLU & VALLEJO PUPL												
A0100												
10/24/84 0900	5050 5050		775	58 F 7.8	--	--	--	--	--	0.02	o	0.001
11/15/84 1000	5050 5050		520	12.5C 7.4	--	--	--	--	--	--	0.000	n
11/16/84 1100	5050 5050		500	54 F 7.6	--	--	--	--	--	0.01	n	0.000
12/05/84 1000	5050 5050		640	10.5C 7.6	--	--	--	--	--	0.05	o	0.001
12/06/84 0950	5050 5050		715	10.5C 7.9	--	--	--	--	--	--	0.001	n
01/25/85 1200	5050 5050		1001	45 F 8.4	--	--	--	--	--	0.07	n	0.002
03/27/85 1030	5050 5050		257	50 F 7.6	--	--	--	--	--	0.02	o	0.000
04/11/85 1305	5050 5050		1025	66 F 8.4	--	--	--	--	--	0.01	o	0.002
05/17/85 1015	5050 5050		549	65 F 8.4	--	--	--	--	--	0.08	n	0.001
07/29/85 0910	5050 5050		584	19.5C 8.2	--	--	--	--	--	0.01	n	--
RQ 0 820.7 152.7 SACRAMENTO R & GREENS LOG												
A0100												
10/04/84 0820	5050 5050		180	17.5C 7.4	--	--	--	--	--	--	0.000	o
11/08/84 0820	5050 5050		180	14.0C 7.3	--	--	--	--	--	--	0.000	n
12/05/84 0745	5050 5050		200	10.5C 7.4	--	--	--	--	--	--	0.000	n
01/30/85 1145	5050 5050		190	14.0C 7.4	--	--	--	--	--	--	0.000	n

TABLE C-2 (CONTINUED)
MINOR ELEMENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP F	ARSENIC	CONSTITUENTS BARIUM CADIUM	3M WILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
RD N 820.7 132.7					SACRAMENTO R & GREENS LOC				AD100 CONTINUED		
02/06/85	5050			8.0C			--	--	--	--	--
1130	5050		175	7.5	--	--	--	--	--	0.090	0
03/06/85	5050			11.0C			--	--	--	--	--
1200	5050		180	7.4	--	--	--	--	--	0.090	n
RD V RD3.6 129.9					AG-OR W-EO EMPIRE T S-SI AHERTON				RD100		
02/06/85	5050			8.0C			--	--	--	--	--
0905	5050		2500	7.3	--	--	--	--	--	0.000	n
03/06/85	5050			10.5C			--	--	--	--	--
0945	5050		2200	7.3	--	--	--	--	--	0.000	0
RD V RD7.9 134.7					AGRI-OR TYLER IS BY VORMANS LNDG				AD100		
03/27/85	5050			11.5C			--	--	--	--	--
1244	5050		740	6.8	--	--	--	--	--	0.000	0
RD V RD13.2 135.7					AGRI-OR GRANO IS MR WALKER LNDG				AD100		
02/06/85	5050			11.9C			--	--	--	--	--
1030	5050		550	7.1	--	--	--	--	--	0.000	0
03/06/85	5050			12.5C			--	--	--	--	--
1100	5050		480	6.9	--	--	--	--	--	0.000	n
G3 L 015.2 045.1					EAGLE LK STA NO 11				G08C2		
06/14/85	5050			18.5C			--	--	--	--	--
0835	5050	0	784	8.9	--	--	--	0.03	T	--	--
06/14/85	5050			11.1C			--	--	--	--	--
0845	5050	61	780	8.9	--	--	--	0.03	T	--	--
08/02/85	5050			19.8C			--	--	--	--	--
0935	5050	0	775	9.1	--	--	--	0.11	T	--	--
08/02/85	5050			13.1C			--	--	--	--	--
0835	5050	61	779	8.7	--	--	--	0.28	T	--	--
G3 L 036.9 044.7					EAGLE LK STA NO 10A				G08C2		
08/02/85	5050			20.0C			--	--	--	--	--
1240	5050	0	792	9.1	--	--	--	0.12	T	--	--
G3 L 040.4 046.0					EAGLE LK STA NO 4A				G08C2		
08/02/85	5050			20.0C			--	--	--	--	--
1200	5050	0	815	9.1	--	--	--	0.53	T	--	--
G3 L 041.9 041.2					EAGLE LK STA NO 7A				G08C2		
08/02/85	5050			19.1C			--	--	--	--	--
1040	5050	0	821	9.1	--	--	--	0.07	T	--	--
G3 1140.00					PINE C & EAGLE LK NR SUSANVILLE				G08C1		
04/22/85	5050			9.0C			--	--	--	--	--
1110	5050		64	7.9	--	--	--	0.26	T	--	--
G3 2505.00					PAPOOSE C NR SUSANVILLE				G08D0		
04/22/85	5050			21.0C			--	--	--	--	--
1440	5050		209	8.2	--	--	--	0.80	T	--	--
G3 2510.00					MERRILL C & EAGLE LK NR SUSANVILLE				G08C1		
04/22/85	5050			19.0C			--	--	--	--	--
1405	5050		93	7.1	--	--	--	0.29	T	--	--
G3 2515.00					MERRILL C PL LITTLE MERRILL FLAT				G08C1		
04/22/85	5050			2 E 15.0C			--	--	--	--	--
1240	5050		74	7.6	--	--	--	0.28	T	--	--

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TABLE C-3
MISCELLANEOUS ANALYSES OF SURFACE WATER

Lab and Sampler Agency Codes

2163	- California Department of Water Resources for the State Water Resources Control Board
5050	- California Department of Water Resources
8000	- University of Nevada Desert Research Institute Laboratory

Abbreviations and Constituents

TIME	- Pacific Standard Time on a 24-hour clock
TEMP	- Water temperature at time of sampling in degrees Fahrenheit (F) or Celcius (C)
EC	- Electrical conductance in microsiemens at 25° C
DO	- Dissolved oxygen content in milligrams per liter
GH	- Instantaneous gage height in feet above an established datum
pH	- Measure of acidity or alkalinity of water: F = field determination, L = Lab determination
DISCH	- Instantaneous discharge in cubic feet per second (E = estimated)
MBAS	- Methylene blue active substance (a test for detergent surfactants) in milligrams per liter
DEPTH	- Depth, in feet, at which sample was collected
TURB	- Jackson turbidity units measured with a Hach nephelometer, (A); if in the field, (F)
T+L	- Tannin and lignin as tannic acid in milligrams per liter
CHLOR	- Field determination of residual chlorine in milligrams per liter
O+G	- Oil and grease in milligrams per liter
COLOR	- True color in color units
SET S	- Settleable solids in milliliters per liter (ML/L) and milligrams per liter (MG/L)
BOD	- Biochemical oxygen demand in milligrams per liter: B = 5 days
SUS S	- Suspended solids in milligrams per liter; 5 = at 105 degrees C
COD	- Chemical oxygen demand in milligrams per liter
V SUS S	- Volatile suspended solids in milligrams per liter
CYANIDE	- Cyanide in milligrams per liter
PHENOLS	- Phenols in milligrams per liter
TOC	- Total organic carbon in milligrams per liter
DOC	- Dissolved organic carbon in milligrams per liter
IODIDE	- Iodide in milligrams per liter
T ODOR	- Threshold odor number at 60 degrees C
BROMIDE	- Bromide in milligrams per liter
SULFITE	- Sulfite in milligrams per liter
T SULF	- Total sulfides in milligrams per liter
D SULF	- Dissolved sulfides in milligrams per liter
CC EXT	- Carbon chloroform extract
CA EXT	- Carbon alcohol extract

TABLE C-3

MISCELLANEOUS ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAR	TEMP EC	DO G.M.	P-H L-PH	DISC MAS	DEPTH TURN	TOL CHLOR	SET 5 D+G ML/L MG/L	NON SUS S	COD V L/S S	CYANOP PHEWELS	TDC DNC	INDIC T DOOR	ARMWIRE SULFITE	T SULF O SULF	CC EYT CA EYT
		AN	0010.00			ANTELOPE 1K NR DM										
04/25/85	5030	50.0F	9.9	7.2		1										
0930	6000	85	2.74						5.8 5	3.2						
04/25/85	5030	45.0F	8.7	7.0		20			4.8 5	2.1						
0945	8000	76	2.74													
		AO	5103.00			FEATHER R A NICOLAUS										
10/25/84	2163	63 F	10.2	7.4					0.8 R							
1200	5050	90														
01/03/85	5050	44 F	11.5	7.2					1.3 R							
1145	5050	91														
08/15/85	2163	21.1C	7.2	7.8					1.7 R							
1100	2163	105														
		AO	6150.00			YURA R NR MARYSVILLE										
10/25/84	2163	53 F	10.5	7.1					1.5 R							
1000	5050	89	60.01													
08/15/85	2163	18.1C	7.8	7.6					2.0 R							
1255	2163	102														
09/10/85	2163	17.0C	9.0	7.4					1.0 R							
1030	5050	96	54.34													
		AO	6550.00			REAR R NR WHEATLAND										
10/25/84	2163	63 F	9.9	7.3					1.1 R							
1055	5050	84														
03/28/85	2163	50 F	11.7	7.4					1.1 R							
1100	2163	86														
		AO	7125.01			AMERICAN R & 16TH ST RR										
10/10/84	2163	67.5F	8.4	7.1								1.7				
1100	5050	42														
10/10/84	2163	65 F	8.9	7.1								1.5				
1700	5050	45														
10/10/84	2163	65 F	9.0	7.1								1.8				
2300	5050	44														
10/11/84	2163	65 F	8.7	7.1								5.1				
0500	5050	48														
10/11/84	2163	66.5F	8.2	6.9								5.1				
1100	5050	47														
		AO	7140.10			AMERICAN R & SACTO WT FLT										
10/04/84	5050	19.5C	9.1	7.1								1.2				
1130	5050	100		6.9			2									
10/23/84	2163	62 F	8.8	7.1					2.6 R							
1045	5050	47														
11/08/84	5050	16.0C	9.3	7.0								3.2				
1120	5050	50		6.8			15									
12/05/84	5050	11.0C	11.2	7.3								1.5				
1120	5050	60		7.2			5									
02/13/85	5050	10.0C	11.9	7.3												
1320	4050	57		7.1			15									
02/20/85	2163	61 F	11.9	7.6					1.1 R							
1415	5050	60														
08/15/85	2163	22.2C	7.8	7.6					1.3 R							
1550	2163	65														
09/26/85	2163	20.3C	7.4	7.2					0.7 R							
1015	5050	56														
		AO	7149.01			AMERICAN R RL NE STP RL FL										
10/10/84	2163	66 F	8.8	7.1								1.3				
1100	5050	60														
10/10/84	2163	67 F	9.6	7.3								1.3				
1700	5050	44														
10/10/84	2163	65 F	8.9	7.1								1.9				
2300	5050	44														
10/11/84	2163	63 F	8.1	6.9								4.6				
0500	5050	48														
10/11/84	2163	64 F	8.5	6.9								2.4				
1100	5050	48														
		AO	7190.00			AMERICAN R RL HIRSHUS DM										
10/10/84	2163	66.5F	8.3	7.0		2250 E						1.2				
1100	5050	40														
10/10/84	5050	66 F	8.3	7.1		2250 E						1.1				
1700	5050	41														
10/10/84	2163	66 F	8.7	7.1		1750						1.1				
2300	5050	40														
10/11/84	2163	66 F	8.8	7.1		1900 E						1.2				
0500	5050	41														

TABLE C-3 (CONTINUED)

MISCELLANEOUS ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAP	TEMP OF	DO G.M.	F-W L-PM	SET 5					AON SUS 5	CDO V 515 5	CYANIDE PHENOLS	TMC RNC	IONINE T 0000	*ROMIDE SILFETE	T SULF O SULF	CC EXT CA EXT
					O15CM HAS	DEPTH TURN	T+L CHLOR	P+G ML/L	PC/L								
40 7140.00					AMERICAN R AL MINAUS RD					A05P1 CONTINUED							
10/11/74 1103	2143 5040	66 F 40	8.6	7.1	1500 E	--	--	--	--	--	--	1.2	--	--	--	--	--
41 1020.00					PIT R NR MONTGOMERY C					42040							
11/22/74 1900	5050 4050	7.5C 14.4	11.5	7.3	--	--	--	--	1.2 R	--	--	--	--	--	--	--	--
05/08/75 0850	5050 5050	14.5C	--	--	--	--	--	--	1.7 R	--	--	--	--	--	--	--	--
09/11/75 0915	5050 5050	16.0C 14.3	9.6	7.7	--	--	--	--	1.9 R	--	--	--	--	--	--	--	--
47 5250.10					RHINICON R & ELLICOTT RD					406C3							
05/30/75 1045	2143 5050	53 F 57	8.9	7.1	200 E	--	--	--	0.6 R	--	--	--	--	--	--	--	--
R0 1175.01					COSUMNES R & OLLARO RD					R0342							
10/04/74 1025	5050 5040	21.0C 90	9.0	7.4 7.2	--	--	2	--	--	--	--	1.5	--	--	--	--	--
11/09/74 1015	5050 5050	13.5C 60	10.2	7.2 7.0	--	--	25	--	--	--	--	2.5	--	--	--	--	--
12/05/74 1040	5050 5050	10.5C 135	11.3	7.3 7.5	--	--	8	--	--	--	--	2.2	--	--	--	--	--
R0 2105.20					ROKELUMNE R & LOVER SACTO. RD					R0340							
10/04/74 0915	5050 5050	17.5C 45	9.4	7.2 7.2	--	--	2	--	--	--	--	1.6	--	--	--	--	--
11/08/74 0920	5050 5050	16.0C 42	9.6	7.0 7.0	--	--	4	--	--	--	--	2.3	--	--	--	--	--
12/05/74 0945	5050 5050	12.0C 60	10.9	7.2 7.0	--	--	5	--	--	--	--	1.9	--	--	--	--	--
R0 2300.00					CALAVERAS R NP JENNY LIND					R03C0							
04/14/75 1015	2143 5050	51.5F 185	11.4	8.0	--	--	--	--	2.5 R	--	--	--	--	--	--	--	--
R0 7020.00					SAN JOAQUIN R NR VERNALIS					R0100							
10/25/74 0810	5050 5050	15.5C 300	7.9	7.4 7.7	--	--	12	--	--	--	--	3.0	--	--	--	--	--
11/29/74 0940	5050 5050	11.5C 300	9.2	7.1 7.6	--	--	25	--	--	--	--	4.4	--	--	--	--	--
12/12/74 0930	5050 5050	11.0C 300	9.2	7.3 7.6	--	--	12	--	--	--	--	3.6	--	--	--	--	--
02/22/75 1310	5050 5050	54 F 545	6.4	7.4 7.7	--	--	20	--	--	--	--	--	--	--	--	--	--
02/27/75 0915	5050 5050	12.5C 500	9.6	7.4 7.2	--	--	25	--	--	--	--	7.2	--	--	--	--	--
R1 1150.00					COSUMNES R & MICHIGAN BAR					R0441							
10/23/74 0950	2143 5040	57 F 75	9.1 2.44	7.1	--	--	--	--	0.7 R	--	--	--	--	--	--	--	--
08/15/75 1500	2163 2163	28.7C 150	5.5 1.73	6.9	--	--	--	--	6.4 R	--	--	--	--	--	--	--	--
09/26/75 0840	2143 5050	21.6C 95	7.1 1.49	7.9	--	--	--	--	0.3 R	--	--	--	--	--	--	--	--
R0 C 7490.0 133.6					DELTA MEMPHIS C4 & LINNEPARK RD					R0100							
10/25/74 1009	5050 5050	16.0C 260	9.8	7.4 7.5	--	--	20	--	--	--	--	3.3	--	--	--	--	--
11/26/74 1215	5050 5040	11.0C 320	10.2	7.4 7.6	--	--	25	--	--	--	--	6.1	--	--	--	--	--
12/12/74 1015	5050 5050	11.5C 310	9.3	7.2 7.3	--	--	25	--	--	--	--	4.9	--	--	--	--	--
02/27/75 1415	5050 5050	13.0C 325	9.9	7.4	--	--	35	--	--	--	--	--	--	--	--	--	--
R0 D 753.5 129.3					HINDLE R & MORDEN HWY					R0100							
02/04/75 0930	5050 5050	6.5C 300	11.2	7.3 7.7	--	--	25	--	--	--	--	--	--	--	--	--	--
R0 D 758.4 134.6					ROCK SL & OLD RIVER					R0100							
10/25/74 1140	5050 5040	17.0C 200	10.9	8.0 7.6	--	--	12	--	--	--	--	3.9	--	--	--	--	--
11/29/74 1330	5050 5050	12.0C 190	10.5	7.4 7.4	--	--	30	--	--	--	--	3.7	--	--	--	--	--
12/12/74 1145	5050 5050	11.0C 200	9.7	7.3 7.6	--	--	30	--	--	--	--	4.4	--	--	--	--	--
02/27/75 1145	5050 5040	14.0C 200	10.3	7.5 7.6	--	--	25	--	--	--	--	--	--	--	--	--	--

TABLE C-3 (CONTINUED)
MISCELLANEOUS ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAR	TEMP EC	DO G.M.	F-PH L-PH	DISCH M45	DEPTH TURB	TOL CHLOR	SET 5		AOM SUS 5	COD SUS 5	CYANIDE PHENOL	TOD DOC	INDICE T OADR	NOMINE SULFITE	7 SULF N SULF	CC EXT CA EXT
								D-G COLOR	PL/L PG/L								
RQ D R03.6 127.5 HONKER CUT 4 ATHERTON RD RD 40100																	
10/04/84	5050	18.5C	8.8	7.3										1.4			
0750	5050	130		7.4	--		--	5	--	--	--	--	--	--	--	--	--
12/05/84	5050	10.5C	9.8	7.2										9.0			
0850	5050	200		7.6	--			35	--	--	--	--	--	--	--	--	--
RQ D R03.6 130.0 LITTLE CONNECTION EMPIRE ATHERTON 40100																	
02/06/85	5050	7.0C	11.2	7.4													
0845	5050	265		7.8	--		--	15	--	--	--	--	--	--	--	--	--
RQ D R14.6 130.5 MINER SLU A PYDE ISL SCH HWY 40100																	
10/24/84	5050	50 F	9.5	7.6													
1215	5050	146			--		--		--	8	5	--	--	--	--	--	--
01/25/85	5050	45 F	10.6	7.4													
1330	5050	204			--		--			13	5	--	--	--	--	--	--
04/11/85	5050	63 F	9.0	7.6													
0900	5050	167			--		--			11	5	--	--	--	--	--	--
07/29/85	5050	21.5C	7.7	7.6													
1230	5050	185			--		--			18	5	--	--	--	--	--	--
RQ D R15.8 146.2 LIMOSAY SLU A HASTINGS CUT 40100																	
10/11/84	5050	19.5C	8.0	7.8										3.4			
0950	5050	360		7.9	--		--	50	--	--	--	--	--	--	--	--	--
10/24/84	5050	58 F	8.6	7.8													
0945	5050	402			--		--			63	5	--	--	--	--	--	--
11/15/84	5050	12.5C	8.6	7.5										4.7			
1045	5050	360		7.6	--		--	25	--	--	--	--	--	--	--	--	--
11/16/84	5050	54 F	8.8	7.6													
1200	5050	360			--		--			19	5	--	--	--	--	--	--
12/05/84	5050	10.5C	7.8	7.4													
1045	5050	440			--		--			69	5	--	--	--	--	--	--
12/06/84	5050	11.0C	8.3	7.3										9.7			
1050	5050	450		7.7	--		--	50	--	--	--	--	--	--	--	--	--
01/25/85	5050	43 F	9.2	7.4													
1045	5050	542			--		--			11	5	--	--	--	--	--	--
02/13/85	5050	10.5C	6.7	7.3													
1150	5050	360		6.9	--		--	50	--	--	--	--	--	--	--	--	--
02/22/85	5050	52 F	8.6	7.4													
1030	5050	435			--		--										
03/27/85	5050	50 F	6.2	8.0													
1200	5050	440			--		--			43	5	--	--	--	--	--	--
04/11/85	5050	66 F	9.5	8.0													
1130	5050	510			--		--			14	5	--	--	--	--	--	--
05/17/85	5050	66 F	8.1	8.0													
0930	5050	548			--		--			95	5	--	--	--	--	--	--
07/29/85	5050	20.5C	7.6	8.0													
1010	5050	377			--		--			124	5	--	--	--	--	--	--
08/15/85	5050	18.9C	6.6	8.0													
0745	5050	365			--		--			18	5	--	0.001	--	--	--	--
09/12/85	5050	18.0C	4.8	7.7													
1130	5050	540			--		--			32	5	--	--	--	--	--	--
RQ D R17.8 144.8 CACHE SLU A VALLEJO PUPL 40100																	
10/11/84	5050	19.5C	7.8	8.2										6.0			
0930	5050	590		8.0	--		--	25	--	--	--	--	--	--	--	--	--
10/24/84	5050	58 F	8.2	7.8													
0900	5050	775			--		--			47	5	--	--	--	--	--	--
11/15/84	5050	12.5C	7.7	7.4										9.0			
1000	5050	520		7.6	--		--	30	--	--	--	--	--	--	--	--	--
11/16/84	5050	54 F	7.8	7.6													
1100	5050	500			--		--			99	5	--	--	--	--	--	--
12/05/84	5050	10.5C	8.6	7.6													
1000	5050	640			--		--			32	5	--	--	--	--	--	--
12/06/84	5050	10.5C	8.8	7.9										8.5			
0950	5050	715		7.8	--		--	50	--	--	--	--	--	--	--	--	--
01/25/85	5050	45 F	10.8	8.4													
1200	5050	1001			--		--			35	5	--	--	--	--	--	--
03/27/85	5050	50 F	9.5	7.6													
1030	5050	257			--		--			301	5	--	--	--	--	--	--
04/11/85	5050	66 F	9.5	8.4													
1305	5050	1025			--		--			42	5	--	--	--	--	--	--
05/17/85	5050	65 F	7.9	8.4													
1015	5050	544			--		--			71	5	--	--	--	--	--	--
07/29/85	5050	19.5C	6.0	8.2													
0910	5050	544			--		--			102	5	--	--	--	--	--	--

TABLE C-3 (CONTINUED)
MISCELLANEOUS ANALYSES OF SURFACE WATER

DATE TIME	SAMP ID	TEMP EC	PH G.M.	F-PH L-PH	DTSCH M&S	DEPTH TURA	T+L C/LOR	SET S O+G ML/L COLOR	RNO SUS S	CON V SUS S	CYANIDE PHENOLS	TGC DOC	IODINE T OONR	AROMIDE SILFITE	T SILF D SILF	CC EXT CA EXT
89 D R20.7 132.7 SACRAMENTO R & GREENS LDR AC100																
10/04/84	5050	17.5C	0.0	7.4	--	--	--	5	--	--	--	1.4	--	--	--	--
0620	5050	14.0C	0.7	7.3	--	--	--	8	--	--	--	2.1	--	--	--	--
11/06/84	5050	10.9C	10.9	7.4	--	--	--	13	--	--	--	2.4	--	--	--	--
0745	5050	2.00		7.4	--	--	--	10	--	--	--	--	--	--	--	--
02/01/85	5050	8.0C	12.1	7.5	--	--	--	--	--	--	--	--	--	--	--	--
1130	5050	175		7.0	--	--	--	--	--	--	--	--	--	--	--	--
89 V R03.4 129.9 AG-DR W-ED FMPHIRE T S-51 AHERTON R0100																
02/06/85	5050	6.0C	0.8	7.3	--	--	--	25	--	--	--	--	--	--	--	--
0405	5050	2500		7.5	--	--	--	--	--	--	--	--	--	--	--	--
89 V R13.2 134.7 AFRI-DR GRAND IS NR WALKER LDR 40100																
02/06/85	5050	11.5C	7.5	7.1	--	--	--	25	--	--	--	--	--	--	--	--
1030	5050	550		7.6	--	--	--	--	--	--	--	--	--	--	--	--
G7 1645.00 TRUCKEE R & TAMOE CTY F0690																
10/18/84	2163	4.8 F	7.7	7.1	--	--	--	--	0.4 R	--	--	--	--	--	--	--
1003	5050	02	2.16		--	--	--	--	--	--	--	--	--	--	--	--
04/14/85	2163	10.8C	6.4	7.2	--	--	--	--	0.6 R	--	--	--	--	--	--	--
1340	2163	10.8	4.11		--	--	--	--	--	--	--	--	--	--	--	--
09/18/85	2163	11.2C	6.8	7.4	--	--	--	--	0.6 R	--	--	--	--	--	--	--
0845	5050	110	3.08		--	--	--	--	--	--	--	--	--	--	--	--
G6 3420.20 CARSON R E F & HWY 4 GC340																
10/31/84	2163	37 F	11.8	7.5	100 E	--	--	--	1.1 R	--	--	--	--	--	--	--
0910	5050	112			--	--	--	--	--	--	--	--	--	--	--	--
04/14/85	2163	12.6C	7.4	8.0	--	--	--	--	2.3 P	--	--	--	--	--	--	--
0745	2163	132			--	--	--	--	--	--	--	--	--	--	--	--
09/17/85	2163	13.8C	7.7	8.2	--	--	--	--	0.6 R	--	--	--	--	--	--	--
1350	5050	130			--	--	--	--	--	--	--	--	--	--	--	--
G9 3200.00 WALKER R & E, NR BRIDGEPORT G0140																
10/30/84	2163	44 F	9.1	8.6	31	--	--	--	2.7 R	--	--	--	--	--	--	--
1620	5050	143	0.52		--	--	--	--	--	--	--	--	--	--	--	--
08/14/85	2163	18.7C	5.5	8.6	--	--	--	--	1.8 R	--	--	--	--	--	--	--
0945	2163	179			--	--	--	--	--	--	--	--	--	--	--	--
09/17/85	2163	13.6C	7.0	7.9	93.4	--	--	--	2.3 R	--	--	--	--	--	--	--
1100	5050	210	0.88		--	--	--	--	--	--	--	--	--	--	--	--

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TABLE C-4
NUTRIENT ANALYSES OF SURFACE WATER

Lab and Sampler Agency Code

2163	- California Department of Water Resources for the State Water Resources Control Board
5050	- California Department of Water Resources
8000	- University of Nevada, Desert Research Institute Laboratory

Abbreviations

TIME	- Pacific Standard Time on a 24-hour clock
GH	- Instantaneous gage height, in feet, above an established datum
Q	- Instantaneous discharge in cubic feet per second
TEMP	- Water temperature at time of sampling in degrees Fahrenheit (F) or Celsius (C)
Depth	- Depth, in feet, when measurement was taken
F EC	- Field determination of electrical conductance in microsiemens at 25°C
F PH	- Field determination of acidity or alkalinity
TURB	- Jackson turbidity units measured with a Hach nephelometer, (A); if in the field, (F)
F-CO2	- Field determination of carbon dioxide in milligrams per liter
P ALK	- Field determination of alkalinity (Phenol)
T ALK	- Field determination of alkalinity (Total)

(Nitrogen Series as N)

D N02+N03	- Dissolved nitrite and nitrate
D N02	- Dissolved nitrite
D N03	- Dissolved nitrate
D ORG N	- Dissolved organic nitrogen
T ORG N	- Total organic nitrogen
D NH 3	- Dissolved ammonia
T NH 3	- Total ammonia
T (NH3+ORG N)	- Total ammonia plus organic nitrogen

(Phosphorus Series as P)

DIS.A.H.P04	- Dissolved acid hydrolyzable phosphate
D O-P04	- Dissolved orthophosphate
T O-P04	- Total orthophosphate
D TOT P	- Dissolved total phosphorus
T TOT P	- Total phosphorus

TABLE C-4
NUTRIENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAR	G.M. Q	TEMP DEPTH	F EC F PH	TURB F CO2	FIELD P ALK T ALK	N NO2 + NO3	O NO2 O NO3	CONSTITUENTS IN O ORG N T ORG N	WILHELM'S PER LITER T NH3 + O15 ORG M A.M.PDA	N D-PDA T D-PDA	N TOT + T TOT P
.....												
AM 0010.00 ANTELOPE LK NR DN												
04/25/85 0930	5050 8000	2.74	50.0F 1	85 7.2		0 35	--	--	0.00 C.4	--	0.00 --	-- 0.02
04/25/85 0945	5050 8000	2.74	45.0F 20	78 7.0		0 20	0.00	--	0.00 0.5	--	0.00 --	-- 0.03
A0 2170.00 SACRAMENTO R A FREMONT WEIR W END												
10/25/84 1330	5050 5050		58 F	176 7.6			0.14	--	0.02	0.1	0.02	-- 0.04
12/20/84 1400	5050 5050	24.01	48 F	7.3			0.19	--	0.02	0.0	0.02	-- 0.12
02/19/85 1230	5050 5050		55 F	212 7.8			0.20	--	0.01	0.1	0.02	-- 0.05
04/26/85 1345	5050 5050		63.7F	177 7.8			0.10	--	0.02	0.3	0.02	-- 0.06
06/26/85 1250	5050 5050		73.0F	212 7.8			0.07	--	0.02	0.4	0.02	-- 0.08
08/15/85 0945	5050 5050	15.75	20.7C	199 8.0			0.08	--	0.02	0.3	0.03	-- 0.08
A0 2230.02 SACRAMENTO R AR COLUSA BASIN DR												
05/29/85 1125	5050 5050		19.0C	184 7.8	8AF		0.02	--	--	0.4	0.01	-- 0.05
A0 2630.00 SACRAMENTO R A HAMILTON CITY												
05/29/85 0745	5050 5050	29.31	15.0C	146 7.6	7AF		0.05	--	--	0.4	0.00	-- 0.03
A0 2750.00 TEHAMA COLUSA CANAL NR RED BLUFF												
05/22/85 1215	5050 5050	14.8C		132 1403	3AF		0.05	--	--	0.1	0.01	-- 0.03
A0 2785.00 SACRAMENTO R A RENO RR												
05/23/85 0655	5050 5050	18.08	14.0C	137 7.5	3AF		0.06	--	--	0.2	0.01	-- 0.03
A0 2926.00 R-D 1500 OR SLU TO SAC SLU NR KARNAK												
06/26/85 1050	5050 5050	25.0C		466 7.6	19AF		0.13	--	--	0.6	0.05	-- 0.18
A0 2927.00 SUTTER RP A R-D 1500 PP A KARNAK												
02/25/85 1240	5050 5050	15.25	15.0C	406 8.0			0.12	--	--	0.4	0.03	-- 0.12
A0 2947.10 COLUSA BAS DR NR KNIGHTS LRG												
04/29/85 1045	5050 5050	19.5C		402 7.9	82AF		0.44	--	--	0.6	0.09	-- 0.18
A0 2955.00 R-D 787 DRAINAGE TO SACRAMENTO R												
08/28/85 1210	5050 5050	23.5C		590 7.4	27AF		0.02	--	--	0.9	0.07	-- 0.16
A0 2965.00 RD 70 DR TO SACRAMENTO R												
05/29/85 1010	5050 5050	17.0C		328 7.7	50AF		0.20	--	--	0.0	0.06	-- 0.15
A0 2972.00 BUTTE SLU NR MERIDIAN												
08/28/85 0920	5050 5050	45.28	23.0C	274 7.2	7AF		0.04	--	--	0.6	0.04	-- 0.09
A0 3500.00 THOMES C A PASQUENTA												
05/22/85 1535	5050 5050	2.67	26.2C	185 8.2	5AF		0.01	--	--	0.1	0.00	-- 0.01
A0 4420.50 MILL C NR M1 NR LOS MOLINOS												
06/24/85 0735	5050 5050	21.0C		196 7.3	2AF		0.04	--	--	0.7	0.01	-- 0.02
A0 5105.00 FEATHER R A NICOLAUS												
10/25/84 1200	5050 5050	63 F		90 7.4			0.04	--	0.02	0.1	0.01	-- 0.03
12/20/84 1230	5050 5050	24.60	48 F	7.3			0.07	--	0.01	0.3	0.01	-- 0.02
02/19/85 1130	5050 5050	53 F		103 7.4			0.08	--	0.01	0.0	0.01	-- 0.08
04/26/85 1215	5050 5050	64.5F		99 7.6			0.04	--	0.02	0.4	0.01	-- 0.05
06/26/85 1100	5050 5050	21.55	73.0F	111 7.8			0.03	--	0.01	0.4	0.01	-- 0.04
04/15/85 1100	5050 5050	21.8C		105 7.8			0.01	--	0.01	0.3	0.00	-- 0.03

TABLE C-4 (CONTINUED)
NUTRIENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAR	G.M. O	TEMP DEPTH	F EC PM	TURN F CQ2	FIELD P ALK T ALK	0 NO2 NO3	0 NO2 NO3	CONSTITUENTS IN MILLIGRAMS PER LITER 0 ORF T NO2 N	0 NH3 T NH3	0 NH3 T NH3	0 NH3 T NH3	0 NH3 T NH3	0 NH3 T NH3	0 NH3 T NH3	0 NH3 T NH3	0 NH3 T NH3	0 NH3 T NH3	0 NH3 T NH3
08/29/84 0850	5050		19.5C	138 6.8	104F		0.01	---	---	---	---	0.6	---	0.02	---	---	---	---	0.04
08/27/84 0825	5050		23.0C	328 7.6	104F		0.18	---	---	---	---	0.8	---	0.06	---	---	---	---	0.15
08/29/84 0445	5050		21.0C	271 7.4	84F		0.20	---	---	---	---	0.5	---	0.06	---	---	---	---	0.12
10/25/84 1000	2163 5050		60.01	53 F	80 7.1		0.02	---	---	---	---	---	---	0.00	---	---	---	---	---
08/15/85 1255	2163		18.1C	102 7.6			0.00	---	---	---	---	---	---	0.00	---	---	---	---	---
10/25/84 1055	2163 5050			63 F	84 7.3		0.02	---	---	---	---	---	---	0.00	---	---	---	---	---
03/28/85 1100	2163			50 F	86 7.4		0.12	---	---	---	---	---	---	0.01	---	---	---	---	---
10/10/84 1100	2163 5050			67.5F	42 7.1		0.00	---	---	0.01	---	0.10	---	0.01	---	---	---	0.01	0.01
10/10/84 1700	2163 5050			65 F	44 7.1		0.01	---	---	0.01	---	0.14	---	0.01	---	---	---	0.01	0.02
10/11/84 0403	2163 5050			65 F	46 7.1		0.11	---	---	0.09	---	0.54	---	0.04	---	---	---	0.05	0.08
10/11/84 1103	2163 5050			66.5F	47 6.9		0.15	---	---	0.08	---	0.57	---	0.04	---	---	---	0.05	0.08
10/23/84 1045	2163 5050			62 F	47 7.1		0.02	---	---	---	---	---	---	0.00	---	---	---	---	---
02/20/85 1415	2163 5050			61 F	60 7.6		0.04	---	---	---	---	---	---	0.00	---	---	---	---	---
08/15/85 1540	2163 5050			22.2C	65 7.6		0.00	---	---	---	---	---	---	0.00	---	---	---	---	---
08/26/85 1015	2163 5050			20.3C	56 7.2		0.01	---	---	---	---	---	---	0.00	---	---	---	---	---
10/10/84 1100	2163 5050			66 F	60 7.1		0.00	---	---	0.01	---	0.10	---	0.00	---	---	---	0.01	0.01
10/10/84 1700	2163 5050			67 F	44 7.3		0.00	---	---	0.01	---	0.21	---	0.00	---	---	---	0.00	0.01
10/10/84 2300	2163 5050			65 F	44 7.1		0.12	---	---	0.03	---	0.71	---	0.01	---	---	---	0.02	0.05
10/11/84 0500	2163 5050			63 F	48 6.9		0.02	---	---	0.06	---	0.43	---	0.04	---	---	---	0.05	0.08
10/11/84 1100	2163 5050			64 F	48 6.9		0.05	---	---	0.02	---	0.21	---	0.02	---	---	---	0.02	0.03
10/10/84 1100	2163 5050			66.5F	40 7.0		0.00	---	---	0.01	---	0.09	---	0.01	---	---	---	0.01	0.01
10/10/84 1700	2163 5050			66 F	41 7.1		0.01	---	---	0.01	---	0.09	---	0.01	---	---	---	0.01	0.01
10/10/84 2300	2163 5050			66 F	40 7.1		0.00	---	---	0.01	---	0.05	---	0.01	---	---	---	0.01	0.01
10/11/84 0500	2163 5050			66 F	41 7.1		0.00	---	---	0.00	---	0.09	---	0.00	---	---	---	0.01	0.01
10/11/84 1100	2163 5050			66 F	40 7.1		0.00	---	---	0.00	---	0.08	---	0.00	---	---	---	0.00	0.00
08/23/85 1530	5050			19.6C	146 8.1	24F	0.01	---	---	0.01	---	0.1	---	0.02	---	---	---	---	0.07
05/23/85 1430	5050			19.0C	148 7.2	54F	0.29	---	---	0.02	---	0.1	---	0.08	---	---	---	---	0.12
08/20/85 1144	5050			16.0C	167 8.2	34F	0.04	---	---	0.01	---	0.2	---	0.02	---	---	---	---	0.06
08/20/85 1144	5050			11.5C	145 7.6	34F	0.08	---	---	0.08	---	0.2	---	0.02	---	---	---	---	0.06

TABLE C-4 (CONTINUED)
NUTRIENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP L&R	CHL O	TEMP DEPTH	FEC FPH	TURB F/02	FIELD PALK TALK	NO2 + NO3	NO2 O NO3	CONSTITUENTS IN MILLIGRAMS PER LITER	NO3 O NO3	NO3 O NO3	NO3 O NO3	NO3 O NO3	NO3 O NO3	NO3 O NO3	NO3 O NO3	NO3 O NO3
A1 R 102.0 159.1 INDM CM RES																	
									A2343								
05/23/85	5050		17.1C	86	3AF		0.00	--	--	0.00		0.0	--	0.00	--	0.02	--
1030	5050		0	7.4													
05/23/85	5050		11.9C	88	1AF		0.00	--	--	0.01		0.0	--	0.00	--	0.02	--
1030	5050		05	7.6													
09/20/85	5050		12.9C	94	1AF		0.01	--	--	0.00		0.0	--	0.00	--	0.03	--
0915	5050		0	7.7													
09/20/85	5050		10.0C	93	2AF		0.01	--	--	0.00		0.0	--	0.00	--	0.04	--
0915	5050		72	7.6													
A1 1020.00 PIT R NR MONTGOMERY C									A2080								
11/28/84	5050		7.9C	145	9AF		0.11	--	--	--		--	--	0.03	--	--	--
0900	5050			7.3													
05/08/85	5050		14.9C	155	5AF		0.08	--	--	--		0.6	--	0.04	--	0.08	--
0950	5050			8.1													
A1 4400.00 PIT R SF NR LIVELEY									A23E2								
09/18/85	5050		2.11	13.0C	120	51AF	0.01	--	--	--		0.7	--	0.04	--	0.08	--
1315	5050			8.2													
A2 L 043.2 225.0 SHASTA LK A DAM									A2040								
10/24/84	5050		16.4C		1AF		0.03	--	--	0.01		0.1	--	0.02	--	0.02	--
0930	5050		0	7.4													
10/24/84	5050				7AF		0.16	--	--	0.01		0.1	--	0.02	--	0.04	--
0930	5050		426	7.0													
09/24/85	5050		21.0C	115	1AF		0.01	--	--	0.01		0.0	--	0.00	--	0.00	--
0950	5050		0	7.9													
05/24/85	5050		8.3C	132	2AF		0.14	--	--	0.01		0.1	--	0.01	--	0.03	--
0850	5050		443	7.3													
09/17/85	5050		20.3C	132	1AF		0.00	--	--	0.01		0.1	--	0.00	--	0.02	--
0800	5050		0	7.6													
09/17/85	5050		46.0F	137	2AF		0.14	--	--	0.02		0.1	--	0.01	--	0.04	--
0800	5050		364	7.0													
A2 L 044.3 227.3 SHASTA LK A LITTLE SOUW C INLET									A2040								
10/18/84	5050		17.0C	126	1AF		0.01	--	--	0.04		0.0	--	0.00	--	0.02	--
1100	5050		0	7.3													
10/18/84	5050		17.5C	125	1AF		0.01	--	--	0.00		0.0	--	0.00	--	0.02	--
1100	5050		79	7.3													
A2 L 044.9 212.1 SHASTA LK PIT R AB JONES VALLEY									A2040								
10/15/84	5050		9.5C	142	6AF		0.18	--	--	0.08		0.2	--	0.02	--	0.05	--
0830	5050		230	6.8													
10/15/84	5050		17.7C	129	2AF		0.08	--	--	0.01		0.1	--	0.01	--	0.02	--
0845	5050		0	7.3													
A2 L 045.4 225.9 SHASTA LK LITTLE BACKRONE C INLET									A2040								
10/17/84	5050		15.5C	124	2AF		0.08	--	--	0.00		0.0	--	0.02	--	0.02	--
1100	5050		98	7.1													
10/17/84	5050		17.0C	124	1AF		0.02	--	--	0.00		0.0	--	0.01	--	0.02	--
1100	5050		0	7.3													
A2 L 046.4 212.9 SHASTA LK SOUW C BL ZINC C									A2040								
10/15/84	5050		17.7C	131	1AF		0.01	--	--	0.01		0.1	--	0.00	--	0.02	--
1100	5050		0	7.3													
10/15/84	5050		9.7C	144	3AF		0.20	--	--	0.01		0.0	--	0.01	--	0.03	--
1100	5050		226	6.8													
A2 L 046.4 217.6 SHASTA LK MCCLLOUD R ARM									A2440								
10/17/84	5050		6.0C	124	7AF		0.18	--	--	0.02		0.1	--	0.02	--	0.04	--
0830	5050		208	7.0													
10/17/84	5050		16.0C	124	1AF		0.02	--	--	0.01		0.1	--	0.01	--	0.02	--
0830	5050		0	7.4													
A2 L 048.5 222.8 SHASTA LK SACRAMENTO R ARM									A2440								
10/18/84	5050		16.9C	147	0.02		0.02	--	--	0.01		0.1	--	0.01	--	0.07	--
0930	5050		0	7.3													
10/18/84	5050		6.8C	147	1AF		0.16	--	--	0.01		0.1	--	0.02	--	0.03	--
0830	5050		282	6.7													
A2 L 116.8 219.7 LK SISKIYOU HP NT SHASTA									A2192								
05/22/85	5050		17.0C	90	1AF		0.00	--	--	0.00		0.1	--	0.00	--	0.01	--
1645	5050		0	7.5													
05/22/85	5050		7.0C	103	2AF		0.01	--	--	0.04		0.1	--	0.00	--	0.01	--
1645	5050		161	7.3													
09/19/85	5050		16.0C	127	1AF		0.01	--	--	0.00		0.1	--	0.00	--	0.02	--
1440	5050		0	7.8													
09/19/85	5050		7.4C	107	2AF		0.14	--	--	0.01		0.0	--	0.01	--	0.03	--
1440	5050		164	7.0													

TABLE C-4 (CONTINUED)
NITRIFENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAR	G.M. O	TEMP NEPTH	F EC F PH	TURN F CO2	FIELD P ALK T ALK	N NO2 N NO3	N NO2 N NO3	CONSTITUENTS IN T ORG N T ORG N	IN MILLIGRAMS T NH4 T NH4	PER LITER OBS N A.W.004	N D-PGA T N-PGA	D TOT P T TOT P
A2 R 107.9 204.2 MCCLOID RFS A OM A2243													
05/23/85	5650		15.2C	92	14F		0.00	--	--	0.01	--	0.00	--
0614	5650		0	7.9						0.0	--	--	0.02
05/23/85	5050		7.0C	87	14F		0.07	--	--	0.02	--	0.01	--
0815	5050		112	7.3						0.0	--	--	0.03
09/20/85	5050		10.4C	97	24F		0.01	--	--	0.00	--	0.00	--
0715	5050		0	7.9						0.0	--	--	0.03
09/20/85	5050		7.8C	91	14F		0.06	--	--	0.01	--	0.02	--
0715	5050		14A	7.2						0.0	--	--	0.04
A2 1300.00 SACRAMENTO R A DELTA A2090													
04/13/85	5650	4.14	19.0C	128	24F		0.02	--	--	--	0.4	--	0.00
0445	5050	305		8.2								--	0.01
A2 2150.00 MCCLOID R AS SHASTA LK A2241													
10/23/84	5050		11.0C	205	24F		0.02	--	--	--	0.3	--	0.00
0830	5050			8.0								--	0.00
06/13/85	5050		17.0C	117	24F		0.01	--	--	--	0.9	--	0.00
0745				7.9								--	0.01
A2 4100.00 SOUW C AS SHASTA LK A2290													
10/24/84	5050		47.5F	190	14F		0.00	--	--	0.01	--	0.00	--
1100	5050			7.3						0.0	--	--	0.02
A3 R 036.1 232.4 WMSKEYTOWN RES A OM A1983													
05/21/85	5050		17.0C	81	14F		0.00	--	--	0.00	--	0.00	--
0930	5050		0	7.4						0.0	--	--	0.00
05/21/85	5050		8.5C	80	24F		0.01	--	--	0.01	--	0.00	--
0930	5050		164	7.2						0.0	--	--	0.01
09/23/85	5050		17.4C	87	24F		0.00	--	--	0.01	--	0.00	--
0830	5050		0	7.4						0.0	--	--	0.01
09/23/85	5050		9.8C	84	24F		0.03	--	--	0.00	--	0.00	--
0900	5050		203	6.9						0.0	--	--	0.01
A3 1110.00 STONY C AS BLACK BUTTE DP NR ORLAND A1340													
05/22/85	5650	2.90	22.0C	320	334F		0.02	--	--	--	0.2	--	0.00
1405	5050			8.1								--	0.03
09/13/85	5050	3.30	20.0C	382	714F		0.00	--	--	--	0.4	--	0.00
0940	5050			8.1								--	0.08
A3 1253.00 STONY C AS GRINDSTONE C A1481													
11/19/84	5050		9.5C	191	324F		0.04	--	--	--	0.2	--	0.02
1030	5050	140 F		7.6								--	0.03
05/22/85	5050		21.5C	299	154F		0.01	--	--	--	0.2	--	0.00
1455	5050	100 E		8.4								--	0.02
09/13/85	5050		19.0C	393	34F		0.07	--	--	--	0.4	--	0.00
0930	5050	5 E		8.3								--	0.04
A3 1302.00 GRINDSTONE C NR ELK C A1481													
03/19/85	5050		14.0C	248	94F		0.03	--	--	--	0.1	--	0.00
1120	5050	40 E		8.0								--	0.04
A7 5250.10 RUMICOM R A ELLICOTT RN A06C3													
09/30/85	2143	53 F		57			0.02	--	--	--	--	0.00	--
1049	5640	200 E		7.1								--	--
A8 L 857.9 240.6 CLEAR LK LO ARM CL3 A6402													
10/23/84	5050		14.4C	230			0.03	--	--	0.01	--	0.00	--
1100	5640		0	7.9						0.6	--	--	0.04
10/23/84	5650		13.4C	235	94F		0.02	--	--	0.02	--	0.01	--
1115	5650		30	7.3						1.0	--	--	0.00
11/20/84	405C		9.2C	255	94F		0.04	--	--	0.03	--	0.03	--
1415	5050		0	7.3						0.6	--	--	0.04
11/20/84	4050		9.2C	256	54F		0.01	--	--	0.03	--	0.01	--
1415	5640		26	7.1						0.6	--	--	0.06
01/24/85	5650		7.3C	261	44F		0.02	--	--	0.14	--	0.00	--
1045	5650		0	7.2						0.6	--	--	0.02
01/24/85	5050		7.3C	261	44F		0.02	--	--	0.13	--	0.01	--
1045	5050		33	7.1						0.6	--	--	0.03
02/21/85	5050		7.5C	255	44F		0.03	--	--	0.06	--	0.00	--
1100	5050		0	7.3						0.6	--	--	0.03
02/21/85	9C50		7.0C	256	54F		0.03	--	--	0.07	--	0.00	--
1100	5650		33	7.2						0.6	--	--	0.04
03/10/85	5050		9.4C	252	94F		0.01	--	--	0.06	--	0.00	--
1100	5050		0	7.2						0.6	--	--	0.03
03/10/85	5050		4.2C	250	54F		0.02	--	--	0.12	--	0.00	--
1100	5050		33	7.0						0.7	--	--	0.04

TABLE G-4 (CONTINUED)
NUTRIENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAT LONG	G.W. DEPTH	TEMP	F EC F PH	TURA F CO2	FIELD P ALK T ALK	N NO2 + N NO3	O NO3 O NO2	CONSTITUENTS IN O DRE N O DRE A	O NH3 O NH3	T NH3 T NH3	T NH3 + O TC	O TC AL4.P04	N O-PO4 T O-PO4	N TOT P T TOT P
AA L 902.7 2546.7 1 CLEAR LK A LAKEPORT															
A0402															
02/07/85	5C50		8.0C	225	84F		0.14	--	--	--				0.01	--
0705	5050			7.2							0.5			--	0.08
AB L 903.8 251.0 CLEAR LK 15-UP ARM CL-1															
A0402															
10/23/84	5050		13.0C	218	194F		0.20	--	--	0.02				0.05	--
1015	5050		20	7.9							0.6			--	0.16
10/23/84	5050		14.1C	210	154F		0.28	--	--	0.04				0.04	--
1015	5050		0	7.9							0.6			--	0.14
11/20/84	5050		8.8C	234	194F		0.12	--	--	0.01				0.02	--
1200	5050		20	7.9							0.5			--	0.11
11/20/84	5050		8.5C	229	184F		0.12	--	--	0.01				0.02	--
1700	5050		0	7.9							0.5			--	0.06
12/18/84	5050		7.2C	225	204F		0.12	--	--	0.02				0.01	--
1030	5050		20	7.9							0.5			--	0.03
12/18/84	5050		7.2C	225	194F		0.12	--	--	0.04				0.01	--
1030	5050		0	7.9							1.4			--	0.11
01/24/85	5050		227	264F		0.12	--	--	0.04					0.01	--
1230	5050		26	7.4							0.5			--	0.06
01/24/85	5050		0	7.5	114F		0.13	--	--	0.02				0.01	--
1230	5050										0.6			--	0.04
02/21/85	5050		225	114F		0.14	--	--	0.03					0.00	--
1230	5050		23	7.4							0.3			--	0.03
02/21/85	5050		217	104F		0.14	--	--	0.03					0.01	--
1230	5050		0	7.5							0.4			--	0.01
03/19/85	5050		224	84F		0.10	--	--	0.01					0.00	--
1015	5050		20	7.6							0.4			--	0.03
03/19/85	5050		211	84F		0.11	--	--	0.01					0.00	--
1015	5050		0	7.8							0.4			--	0.03
04/25/85	5050		232	84F		0.01	--	--	0.02					0.00	--
1045	5050		0	8.0							0.3			--	0.02
04/25/85	5050		237	84F		0.01	--	--	0.01					0.00	--
1045	5050		30	7.8							0.3			--	0.02
05/30/85	5050		226	94F		0.00	--	--	0.01					0.00	--
1000	5050		0	7.8							0.3			--	0.03
05/30/85	5050		241	104F		0.00	--	--	0.01					0.00	--
1000	5050		23	7.7							0.6			--	0.06
06/27/85	5050		24.8C	245	24F		0.00	--	--	0.01				0.01	--
1000	5050		0	7.5							0.2			--	0.01
06/27/85	5050		22.8C	257	184F		0.01	--	--	0.11				0.04	--
1000	5050		20	7.2							0.5			--	0.07
07/23/85	5050		27.8C	258	24F		0.00	--	--	0.01				0.01	--
1030	5050		0	8.2							0.3			--	0.05
07/23/85	5050		24.7C	267	184F		0.01	--	--	0.08				0.03	--
1030	5050		23	7.6							0.5			--	0.14
08/28/85	5050		25.8C	245	94F		0.00	--	--	0.07				0.06	--
1115	5050		0	8.2							1.0			--	0.18
08/28/85	5050		23.2C	264	94F		0.02	--	--	0.13				0.04	--
1115	5050		16	7.1							0.6			--	0.14
09/28/85	5050		21.9C	260	144F		0.06	--	--	0.01				0.04	--
1000	5050		0	8.3							0.6			--	0.18
09/28/85	5050		19.2C	270	254F		0.17	--	--	0.07				0.06	--
1000	5050		20	7.3							0.6			--	0.14
AA 1250.00 REAR C NR RUMSEY															
A0400															
10/25/84	5050		0.51	17.0C	3120	14F	2.5	--	--	--				0.00	--
1420	5050				8.7						0.6			--	0.01
08/08/85	5050		0.38	22.0C	3370	14F	0.00	--	--	--				0.00	--
1005	5050				8.4						0.3			--	0.01
AA 1350.00 CACHE C NR LOWER LK															
A0401															
10/25/84	5050		18.0C	273	74F		0.19	--	--	--				0.01	--
1405	5050		8	8.0							1.7			--	0.05
02/07/85	5050		6.0C	270	84F		0.20	--	--	--				0.00	--
0750	5050		0 E	7.1							0.7			--	0.02
AA 1500.00 *ELSEY C NR KELSEYVILLE															
A0404															
10/04/84	5050		18.0C	231	14F		--	--	--	--				0.02	--
0620	5050			7.3				0.02	--	--				0.0	--
11/07/84	5050		10.5C	235	24F		--	0.00	--	--				0.01	--
1400	5050			7.8				0.01	--	--				0.1	--
12/05/84	5050		8.0C	205	44F		--	--	--	--				0.01	--
0800	5050			7.5				0.07	--	--				0.1	--
01/07/85	5050			260	24F		--	--	--	--				0.01	--
1100	5050			7.6				0.01	--	--				0.1	--
02/04/85	5050			290	04F		--	--	--	--				0.01	--
1140	5050			7.8				0.00	--	--				0.3	--

TABLE C-4 (CONTINUED)
NUTRIENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAR	G.M. Q	TEMP DEPTH	F EC F PH	TURB F CO2	FIELD P ALK T ALK	D NO2 + NO3	D NO2 NO3	CONSTITUENTS IN MILLIGRAMS PER LITER						D NH4 T NH4	D NH4 T NH4	D NH4 T NH4	
									O ORG N	O ORG H	D NH3 T NH3	D NH3 T NH3	D NH3 T NH3	D NH3 T NH3				
AR 1500.00			KELSEY C NR ELSEYVILLE						AQ404 CONTINUED									
03/07/85	5050		6.0C	262	24F	--	--	--	--	--	--	--	0.1	--	0.01	--	0.02	
1100	5050			7.6			0.01								--	--		
04/03/85	5050		10.5C	234	24F	--	--	--	--	--	--	--	0.0	--	0.00	--	0.01	
0730	5050			7.5			0.00								--	--		
05/08/85	5050		18.0C	320	14F	--	--	--	--	--	--	--	0.0	--	0.01	--	0.02	
1635	5050			7.8			0.00								--	--		
06/04/85	5050		21.5C	310	14F	--	--	--	--	--	--	--	0.1	--	0.01	--	0.02	
1530	5050			8.0			0.01								--	--		
07/09/85	5050		23.0C	335	14F	--	--	--	--	--	--	--	0.1	--	0.01	--	0.03	
0955	5050			7.8			0.01								--	--		
08/06/85	5050		26.5C	350	04F	--	--	--	--	--	--	--	0.1	--	0.03	--	0.04	
1420	5050			7.9			0.02								--	--		
09/03/85	5050		24.0C	332	34F	--	--	--	--	--	--	--	0.0	--	0.02	--	0.03	
1415	5050			7.6			0.00								--	--		
09/30/85	5050		20.5C	290	14F	--	--	--	--	--	--	--	0.1	--	0.02	--	0.02	
1400	5050			7.6			0.00								--	--		
AR 5601.00			KELSEY C AR HIGH VLY C						AQ404									
10/04/84	5050		13.0C	120	14F	--	--	--	--	--	--	--	0.0	--	0.01	--	0.02	
0940	5050			7.3			0.02								--	--		
11/06/84	5050		11.0C	140	34F	--	--	--	--	--	--	--	0.1	--	0.01	--	0.03	
1400	5050			7.4			0.00								--	--		
12/04/84	5050		7.0C	135	64F	--	--	--	--	--	--	--	0.1	--	0.01	--	0.01	
1145	5050			7.4			0.09								--	--		
01/07/85	5050		6.5C	175	234F	--	--	--	--	--	--	--	0.2	--	0.01	--	0.03	
1300	5050			7.3			0.04								--	--		
02/04/85	5050		5.5C	181	14F	--	--	--	--	--	--	--	0.1	--	0.01	--	0.01	
1230	5050			7.4			0.03								--	--		
03/07/85	5050		6.0C	165	24F	--	--	--	--	--	--	--	0.1	--	0.01	--	0.01	
1210	5050			7.6			0.02								--	--		
04/01/85	5050		12.0C	149	34F	--	--	--	--	--	--	--	0.0	--	0.00	--	0.01	
1145	5050			7.7			0.03								--	--		
05/08/85	5050		17.0C	170	14F	--	--	--	--	--	--	--	0.0	--	0.01	--	0.01	
1530	5050			7.7			0.00								--	--		
06/04/85	5050		17.0C	160	14F	--	--	--	--	--	--	--	0.1	--	0.02	--	0.02	
1200	5050			7.8			0.03								--	--		
07/09/85	5050		22.0C	150	24F	--	--	--	--	--	--	--	0.1	--	0.01	--	0.02	
1200	5050			8.0			0.01								--	--		
08/06/85	5050		20.0C	147	14F	--	--	--	--	--	--	--	0.1	--	0.00	--	0.02	
1000	5050			7.5			0.01								--	--		
09/03/85	5050		20.0C	128	14F	--	--	--	--	--	--	--	0.1	--	0.01	--	0.01	
1245	5050			7.5			0.00								--	--		
09/30/85	5050		15.0C	132	14F	--	--	--	--	--	--	--	0.1	--	0.01	--	0.01	
1130	5050			7.5			0.02								--	--		
AR 5610.00			HIGH VALLEY C AR KELSEY C						AQ404									
10/04/84	5050		14.5C	330	04F	--	--	--	--	--	--	--	0.0	--	0.01	--	0.02	
0900	5050			7.4			0.02								--	--		
11/06/84	5050		11.5C	300	24F	--	--	--	--	--	--	--	0.0	--	0.03	--	0.03	
1400	5050			7.4			0.03								--	--		
12/04/84	5050		7.0C	197	24F	--	--	--	--	--	--	--	0.1	--	0.00	--	0.01	
1145	5050			7.7			0.02								--	--		
01/07/85	5050		6.5C	227	394F	--	--	--	--	--	--	--	0.1	--	0.00	--	0.03	
1240	5050			7.6			0.01								--	--		
02/04/85	5050		5.5C	280	04F	--	--	--	--	--	--	--	0.1	--	0.00	--	0.01	
1230	5050			7.6			0.02								--	--		
03/07/85	5050		8.0C	230	24F	--	--	--	--	--	--	--	0.0	--	0.00	--	0.01	
1230	5050			7.6			0.01								--	--		
04/01/85	5050		12.0C	188	24F	--	--	--	--	--	--	--	0.0	--	0.00	--	0.00	
1130	5050			7.6			0.01								--	--		
05/08/85	5050		16.0C	280	174F	--	--	--	--	--	--	--	0.2	--	0.00	--	0.06	
1515	5050			7.7			0.00								--	--		
06/04/85	5050		16.5C	305	14F	--	--	--	--	--	--	--	0.1	--	0.01	--	0.01	
1145	5050			7.9			0.02						0.1		--	--		
07/09/85	5050		20.5C	340	14F	--	--	--	--	--	--	--	0.2	--	0.00	--	0.01	
1130	5050			7.9			0.01								--	--		
08/06/85	5050		16.5C	360	14F	--	--	--	--	--	--	--	0.0	--	0.00	--	0.01	
0945	5050			7.8			0.02								--	--		
09/03/85	5050		18.5C	360	14F	--	--	--	--	--	--	--	0.1	--	0.00	--	0.01	
1215	5050			7.3			0.00								--	--		
09/30/85	5050		15.5C	345	14F	--	--	--	--	--	--	--	0.0	--	0.00	--	0.01	
1100	5050			7.5			0.00								--	--		

TABLE C-4 (CONTINUED)
NUTRIENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAR	G.M. O	TEMP DEPTH	F EC F PM	TURB F CO2	FIELD P ALK T ALK	O NO2 + O NO3	O NO2 O NO3	CONSTITUENTS IN MILLIGRAMS PER LITER						O O-PH T O-PH	O TOT P T TOT P
									O ORG N T ORG N	O NH3 T NH3	T NH3 + ORG N	A.M.PH	O O-PH T O-PH	O TOT P T TOT P		
AR 5616.00		ROTTE ROCK PWP PLANT NR GLENAROCK						A0404								
07/27/85	5050						0.01		70.							
1430	5050						0.00								0.00	
08/15/85	5050						0.01		135.							
1330	5050						0.01								0.23	
08/15/85	5050						0.01		72.							
1540	5050						0.00								0.02	
09/03/85	5050						0.02		113.							
1115	5050						0.07								0.08	
09/12/85	5050						0.02		94.							
5050	5050						0.03								0.11	
09/12/85	5050						0.00		59.							
5050	5050						0.03								0.14	
AR 5701.00		KELSEY C & GLENAROCK						A0404								
10/04/84	5090		12.0C	111	24F								0.01			
0715	5050			7.3			0.01				0.1				0.02	
11/06/84	5050		11.0C	115	54F		0.00						0.01			
1530	5050			7.4			0.01				0.2				0.02	
12/04/84	5050		8.5C	100	64F								0.01			
1545	5050			7.3			0.10				0.1				0.01	
01/07/85	5050		7.5C	118	154F								0.01			
1430	5040			7.5			0.01				0.1				0.02	
02/04/85	5040		6.0C	119	24F								0.01			
1340	5050			7.4			0.00				0.1				0.01	
03/07/85	5050		6.0C	115	44F								0.00			
1320	5050			7.4			0.00				0.1				0.01	
04/01/85	5050		14.5C	102	54F								0.00			
1430	5050			7.5			0.01				0.0				0.01	
05/08/85	5050		13.5C	120	34F								0.01			
1445	5050			7.6			0.00				0.0				0.01	
06/04/85	5050		15.0C	130	34F								0.01			
1300	5050			7.7			0.01				0.1				0.01	
07/09/85	5050		19.5C	122	34F								0.01			
1345	5050			7.8			0.00				0.2				0.01	
08/06/85	5050		18.0C	120	24F								0.00			
1145	5050			7.8			0.01				0.1				0.01	
09/03/85	5050		15.0C	120	34F								0.01			
1340	5050			7.5			0.00				0.1				0.01	
09/30/85	5050		13.0C	120	24F								0.00			
1300	5050			7.4			0.00				0.1				0.01	
AR 5710.00		ALDER C & GLENAROCK						A0404								
10/04/84	5050		11.0C	75	14F								0.01			
0830	5050			7.2			0.01				0.1				0.02	
11/06/84	5040		10.0C	96	54F		0.00						0.01			
1500	5050			7.2			0.02				0.1				0.02	
12/04/84	5050		7.5C	110	64F								0.00			
1530	5050			7.3			0.04				0.1				0.01	
01/07/85	5050		7.0C	122	94F								0.01			
1400	5050			7.5			0.02				0.1				0.02	
02/04/85	5050		7.0C	118	14F								0.01			
1330	5050			7.2			0.01				0.1				0.01	
03/07/85	5050		7.0C	104	14F								0.00			
1335	5050			7.3			0.02				0.0				0.01	
04/01/85	5050		14.0C	117	24F								0.00			
1400	5050			7.6			0.01				0.0				0.01	
05/08/85	5050		17.5C	100	14F								0.01			
1425	5050			7.4			0.00				0.0				0.01	
06/04/85	5050		17.0C	105	14F								0.01			
1245	5050			7.6			0.01				0.1				0.02	
07/09/85	5040		23.0C	88	24F								0.02			
1230	5050			7.7			0.01				0.1				0.02	
08/06/85	5040		20.5C	82	14F								0.02			
1130	5050			7.5			0.01				0.1				0.02	
09/03/85	5050		20.0C	73	14F								0.01			
1320	5050			7.4			0.00				0.0				0.02	
09/30/85	5050		14.5C	80	14F								0.01			
1230	5050			7.6			0.00				0.1				0.02	
AO 2500.00		CALAVERAS R NR JENNY LIND						A03C0								
04/18/85	2143		51.5F	185									0.00			
1015	5040			8.0												

TABLE C-4 (CONTINUED)
NUTRIENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP LAR	G.W. D	TEMP DEPTH	F EC F PH	TURB F COZ	FIELD P ALV T ALV	CONSTITUENTS IN F CPG N T CPG N	PER LITER N A, 4, PDA	N T	P T
TIME	LAR	D	DEPTH	F PH	F COZ	T ALV	N N/1	N N/3	N N/3	N N/3
R1 1150.00 COSUMNES R & MICHIGAN RAP R0461										
10/23/84 0450	21A3	2.43	57 F	75 7.1			0.14	--	--	0.01
08/15/84 1500	21A3	1.73	28.7C	150 6.6			0.01	--	--	0.11
G3 L 033.4 048.4 EAGLE LK STA NO 1A G08C2										
11/07/84 1235	50A0 5050		7.5C 0	766 8.9	14F		0.03	--	--	0.04
04/23/85 1435	5050 5050		8.2C 0	745 9.1	24F		0.03	--	--	0.05
06/14/85 1350	5050 5050		20.7C 0	761 8.9	14F		0.02	--	--	0.04
08/02/85 1345	5050 5050		20.0C 0	776 9.1	14F		0.00	--	--	0.04
09/19/85 1335	5050 5050		15.3C 0	790 9.1	14F		0.00	--	--	0.07
G3 L 035.2 045.1 EAGLE LK STA NO 11 G08C2										
11/07/84 0910	5050 5050		7.5C 0	746 8.9	14F		0.03	--	--	0.07
04/23/85 0830	5050 5050		8.6C 0	740 8.9	24F		0.03	--	--	0.04
08/14/85 0835	5050 5050		18.5C 0	764 8.9	14F		0.01	--	--	0.04
06/14/85 0845	5050 5050		11.1C 6.1	760 8.9	14F		0.02	--	--	0.13
08/02/85 0835	5050 5050		10.8C 0	775 9.1	14F		0.00	--	--	0.03
08/02/85 0835	5050 5050		13.1C 8.1	779 8.7	34F		0.00	--	--	0.27
09/19/85 0825	5050 5050		15.0C 0	788 9.0	24F		0.00	--	--	0.07
09/19/85 0835	5050 5050		15.0C 6.2	787 9.0	24F		0.00	--	--	0.07
G3 L 035.5 046.8 EAGLE LK STA NO 2A G08C2										
08/02/85 0930	5050 5050		19.4C 0	766 9.1	24F		0.00	--	--	0.03
08/02/85 0930	5050 5050		13.8C 5.9	781 8.7	14F		0.06	--	--	0.10
09/19/85 0915	5050 5050		15.3C 0	788 9.1	14F		0.00	--	--	0.06
09/19/85 0925	5050 5050		14.8C 6.1	792 9.1	34F		0.00	--	--	0.06
G3 L 036.9 044.7 EAGLE LK STA NO 10A G08C2										
11/07/84 1145	5050 5050		5.2C 0	779 9.0	14F		0.04	--	--	0.05
04/23/85 1225	5050 5050		9.3C 0	757 9.1	24F		0.03	--	--	0.05
06/14/85 1225	5050 5050		19.4C 0	767 9.0	14F		0.01	--	--	0.03
08/02/85 1240	5050 5050		20.0C 0	792 9.1	14F		0.00	--	--	0.04
09/19/85 1210	5050 5050		15.0C 0	789 9.1	14F		0.00	--	--	0.06
G3 L 038.6 044.1 EAGLE LK STA NO 9A G08C2										
09/19/85 1150	5050 5050		14.2C 0	800 9.1	14F		0.00	--	--	0.06
G3 L 040.4 046.0 EAGLE LK STA NO 4A G08C2										
11/07/84 1100	5050 5050		4.8C 0	795 9.0	14F		0.01	--	--	0.04
04/23/85 1110	5050 5050		10.2C 0	755 9.1	24F		0.00	--	--	0.04
06/14/85 1135	5050 5050		20.4C 0	774 9.0	14F		0.00	--	--	0.03
08/02/85 1200	5050 5050		20.0C 0	815 9.1	14F		0.00	--	--	0.08
09/19/85 1170	5050 5050		13.2C 0	835 9.3	14F		0.00	--	--	0.06
G3 L 041.9 041.2 EAGLE LK STA NO 7A G08C2										
11/07/84 1005	5050 5050		5.0C 0	815 9.0	14F		0.00	--	--	0.03
04/23/85 1000	5050 5050		10.0C 0	759 8.9	24F		0.00	--	--	0.03
06/14/85 1034	5050 5050		20.0C 0	744 9.1	14F		0.00	--	--	0.07

TABLE C-4 (CONTINUED)
NUTRIENT ANALYSES OF SURFACE WATER

DATE TIME	SAMP L&R	G.M. O	TEMP DEPTH	FIELD				CONSTITUENTS IN MILLIGRAMS PER LITER										N-PHOS T	N-TOT P T
				F EC F PH	TURB F COZ	P ALK T ALK	N NO2 + N NO3	O NO2 O NO3	N ORG N T ORG N	O NH3 T NH3	N H4 T H4	PYS A.M.PDA	N-PHOS T	N-TOT P T					
G3 L 041.9 041.2				EAGLE LK STA NN 7A				G04C2 CONTINUED											
08/02/85	5050		19.1C	921		1AF	0.00	--	--	--	--	1.1	--	--	--	0.03	--		
1040	5050		0	9.1															
09/10/85	5050		13.0C	860		1AF	0.00	--	--	--	--	1.3	--	--	--	0.03	--		
1010	5050		0	9.3															
G3 1140.00				PINE C & EAGLE LK NR SUSANVILLE				G04C1											
04/22/85	5050	3.98	9.0C	84		4AF	0.00	--	--	0.02	--	0.5	--	0.00	--	0.02	--		
1110	5050			7.5															
G3 2505.00				PAPONSE C NR SUSANVILLE				G0400											
04/22/85	5050		21.0C	209		4AF	0.00	--	--	0.00	--	0.1	--	0.00	--	0.02	--		
1440	5050			8.2															
G3 2510.00				MERRILL C & EAGLE LK NR SUSANVILLE				G08C1											
04/22/85	5050		19.0C	93		4AF	0.00	--	--	0.00	--	0.1	--	0.00	--	0.00	--		
1405	5050			7.1															
G3 2515.00				MERRILL C RL LITTLE MERRILL FIAT				G08C1											
04/22/85	5050		15.0C	74		7AF	0.00	--	--	0.00	--	0.1	--	0.00	--	0.00	--		
1240	5050		2 F	7.6															
G7 1645.00				TRICKEE R & TAMOE CRY				G0640											
10/19/84	2163		2.14	48		F	92		0.00	--	--	--	--	0.00	--	--	--		
1004	5050			7.1															
08/14/85	2163		4.11	19.8C			108		0.00	--	--	--	--	0.00	--	--	--		
1340	5050			7.2															
G8 3420.20				CARSON R E F & HWY 4				G0340											
10/31/84	2163		37	F			112		0.01	--	--	--	--	0.02	--	--	--		
0910	5050	100 E					7.5			--	--	--	--						
08/14/85	2163		12.4C				132		0.02	--	--	--	--	0.02	--	--	--		
0745	2163						8.0			--	--	--	--						
G9 3200.00				WALKER R, E, NR ANIOGEPORT				G0140											
10/10/84	2163		0.52	44		F	153		0.00	--	--	--	--	0.00	--	--	--		
1420	5050		31				8.6			--	--	--	--						
08/14/85	2163		1.85	16.7C			179		0.04	--	--	--	--	0.00	--	--	--		
0845	2163						8.6			--	--	--	--						

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TABLE C-5

PESTICIDE ANALYSES OF SURFACE WATER

Lab and Sampler Agency Code

5050 - California Department of Water Resources

Abbreviations

TIME - Pacific Standard Time on a 24-hour clock
 TEMP - Water temperature at time of sampling in degrees Celcius (C)
 EC - Electrical conductance in microsiemens at 25°C
 DO - Dissolved oxygen content in milligrams per liter
 pH - Measure of acidity or alkalinity of water

Pesticide Codes

Chlorinated Hydrocarbons

<u>Code</u>	<u>Explanation or common name</u>
CHYDROCARB	Chlorinated hydrocarbon compounds used for zero concentrations; not total
DACTHAL	Dacthal, dimethyletra chloroterephthalate
UNKNOWN	Unidentified chlorinated hydrocarbon compounds (reported as DDT) one or more

Organic Phosphorous

<u>Code</u>	<u>Explanation</u>
ORGANICP	Organic phosphorous compounds; used for zero concentrations, not total

Other

<u>Code</u>	<u>Explanation Or Common Name</u>
ALTRAZSIMAZ	Atrazine and/or Simazine
BRDCLMETHN	Bromodichloromethane
BROMOFORM	Bromoform
CAPTAN	Captan
CHLOPYRIFS	Chlorpyrifos, Dursban
CHLOROFORM	Chloroform
DBRCLMETH	Dibromochloromethane
DIAZINON	Diazinon
PARATHION	Parathion
PRGHALOCRB	Purgable halocarbons; used for zero concentrations, not total
2,4D	Includes acid, salts, and esters

TABLE C-8

PESTICIDE ANALYSES OF SURFACE WATER
COMPOUNDS REPORTED IN MILLIGRAMS PER LITER
CHLORINATED HYDROCARBON ORGANIC PHOSPHORUS OTHER

DATE TIME	SAMP LAR	TEMP EC	DO PH	CHLORINATED HYDROCARBON	POSTER IN MILLIGRAMS PER L	ORGANIC P-05P-0015	OTHER
		40 7140.10		AMERICAN R A SACTO VT PLT		AC391	
10/04/84	5050	19.9C 9.1		.00000 CHYOROCARR	.00000	ORGANICP	.000 PRGHALOCRA
1130	5050	100 7.1					.00000 PHENOTYGR
03/13/85	5050	12.0C 11.2					.000 PRGHALOCRA
1215	5050	65 7.3					.00012 ATRA751MA7
							.00002 DIA71MDM
							.00004 Z40
		80 1175.01		COSUMNES R A GILLARD RD		AC342	
10/04/84	5050	21.0C 9.0		.00000 CHYOROCARR	.00000	ORGANICP	.000 PRGHALOCRA
1025	5050	90 7.4					.00000 PHENOTYGR
		80 2135.20		MODELHME R A LOWER SACTO RD		80340	
10/04/84	5050	17.5C 9.4		.00002 UNKNOWN	.00000	ORGANICP	.000 PRGHALOCRA
0915	5050	45 7.2					.00000 PHENOTYGR
		80 7020.00		SAN JOAQUIN R NR VERNALIS		90100	
10/29/84	5050	15.5C 7.9		.00002 DACTHAL	.00000	ORGANICP	.000 PRGHALOCRA
0810	5050	350 7.4					.00000 PHENOTYGR
11/29/84	5050	11.5C 9.2			.00000	ORGANICP	.000 PRGHALOCRA
0940	5050	380 7.1					.00000 ATRA751MA7
12/12/84	5050	11.0C 9.2			.00000	ORGANICP	.00005 ATRA751MA7
0830	5050	380 7.3					.000 PRGHALOCRA
							.00000 PHENOTYGR
02/27/85	5050	12.5C 9.6					.0018 DIA71MDM
0815	5050	500 7.4					.00010 ATRA751MA7
							.00010 CAPTAN
							.00007 Z40
							.000 PRGHALOCRA
03/27/85	5050	12.0C 9.0					.00005 Z40
0845	5050	700 7.4					.00023 ATRA751MA7
							.00007 DIA71MDM
							.000 PRGHALOCRA
04/24/85	5050	17.0C 7.9		.00003 DACTHAL	.00002 UNKNOWN		.00004 Z40
0745	5050	700 7.4					.000 PRGHALOCRA
							.00000 ATRA751MA7
							.00001 CHLORPYRIFOS
							.00002 DIA71MDM
05/22/85	5050	20.5C 7.2		.00008 UNKNOWN	.00007 DACTHAL		.00004 Z40
0700	5050	700 7.4					.00006 PARATHION
09/25/85	5050	21.5C 6.8		.00000 CHYOROCARR	.00000	ORGANICP	.00000 Z40
0707	5050	550 7.4					.000 PRGHALOCRA
		89 C 749.0 133.6		DELTA MENDOTA CA A LINDEMAN RD		80100	
03/27/85	5050	12.0C 9.8			.00000	ORGANICP	.00019 Z40
0845	5050	320 7.4					.00031 ATRA751MA7
							.000 PRGHALOCRA
		89 D 753.5 129.3		MIDDLE R A BORDEN HWY		80100	
03/06/85	5050	10.0C 10.0					.000 PRGHALOCRA
0800	5050	290 7.4					.00009 DIA71MDM
							.00029 ATRA751MA7
							.00004 Z40
		89 D 756.4 134.8		ROCK SL A OLD RIVER		80100	
03/27/85	5050	12.0C 10.1			.00000	ORGANICP	.016 Z40
1115	5050	260 7.4					.00024 ATRA751MA7
							.000 PRGHALOCRA
		89 D 803.6 130.8		LITTLE CONNECTION EMPIRE ATHERTON		80100	
03/06/85	5050	11.0C 10.0			.000	PRGHALOCRA .000 UNKNOWN	.010 CAPTAN
0915	5050	215 7.4					.00054 DIA71MDM
							.00004 Z40
		89 D 815.8 146.2		LINDSAY SLU A HASTINGS CUT		A0100	
12/06/84	5050	11.0C 8.3			.00000	ORGANICP	.000 PRGHALOCRA
1050	5050	450 7.3					.00074 ATRA751MA7
							.00002 UNKNOWN
02/22/85	5050	52 F					.00002 DIA71MDM
1030	5050	435 7.4					.00001 PARATHION
							.0015 ATRA751MA7
							.0018 Z40
03/13/85	5050	12.5C 9.1					.000 PRGHALOCRA
1145	5050	495 7.6					
08/15/85	5050	18.0C 8.4					.00010 ATRA751MA7
0745	5050	363 8.0					
		89 D 817.8 144.8		CACHE SLU A VALLEJO PUPL		A0100	
12/06/84	5050	10.5C 8.8		.00003 DACTHAL	.00000	ORGANICP	.000 PRGHALOCRA
0950	5050	715 7.9					.00042 ATRA751MA7
							.00000 PHENOTYGR
		89 D 820.7 132.7		SACRAMENTO R A GREENS LDC		A0100	
10/04/84	5050	17.5C 9.0		.00000 CHYOROCARR	.00000	ORGANICP	.000 PRGHALOCRA
0620	5050	180 7.4					.00000 PHENOTYGR
02/06/85	5050	8.0C 12.1					.76 CHLORPYRIFOS
1130	5050	175 7.5					.014 ACDCMETHN
							.001 NABCI METH
							.000 RENOPR
03/06/85	5050	11.0C 10.5					.000 PRGHALOCRA
1200	5050	140 7.4					.00003 DIA71MDM
							.00000 ATRA751MA7
							.00003 Z40

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TABLE C-5 (CONTINUED)

PESTICIDE ANALYSES OF SURFACE WATER						
COMPOUNDS REPORTED IN MILLIGRAMS PER LITER						
DATE TIME	SAMP LAR	TEMP EC	PH	CHLORINATED HYDROCARBON		OTHER
				ORGANIC PHOSPHORUS		
			NO V A03.6 129.9	ACOR W-ED EMPIRE T 5-SI AIMEPTON		80100
03/04/85	5050	10.5C	7.6			.00010 ATRATISINAT
0945	5050	2200	7.3			.00002 DIATIMON
						.00000 ZAD
						.000 PRGHALOCRB
			PO V A07.9 134.7	ACRT-NR TYLER IS AY VORMANS LNDG		AC100
03/27/85	5050	11.5C	7.2			.000 PRGHALOCRA
1245	5050	740	6.8			.00000 ZAD
						.00045 ATRATISINAT
						.00002 DIATIMON
			NO V B13.2 135.7	ACRT-NR GRAND IS NP WALKER LNDG		AD100
03/06/85	5050	12.5C	5.3	.00000 CHYDROCARB		.00003 DIATIMON
1100	5050	400	6.9			.00000 PHENITVER
						.000 PRGHALOCRA

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TABLE C-6
SUPPLEMENTAL MINOR ELEMENT ANALYSES OF SURFACE WATER

Lab and Sampler Agency Code

5050 - California Department of Water Resources

Abbreviations

TIME	- Pacific Standard Time on a 24-hour clock
DEPTH	- Depth in feet at which sample was taken
TEMP	- Water temperature at time of sampling in degrees Celcius (C)
EC	- Electrical conductance in microsiemens at 25°C
D	- Dissolved
pH	- Measure of acidity or alkalinity of water
T	- Total

TABLE C-8

DATE	SAMP	LAB	DEPTH	EC	TEMP	PH	ALUMINUM	ANTIMONY	RISBETH	GALLIUM	LITHIUM	NICKEL	TITANIUM	Vanadium
TIME														
10/23/84	5050	AS L	857.9	240.6	14.4C		CLEAR LK 10 ARM CL5			ADADZ				*
1100	5050	0	232	7.9			0.3 T	--	--	--	--	0.01	T	--
10/23/84	5050	AS L	900.7	241.7	14.1C		CLEAR LK 23 OAKS ARM CL4			ADADZ				
1145	5050	0	222	8.0			0.3 T	--	--	--	--	0.03	T	--
10/23/84	5050	AS L	903.8	251.9	14.1C		CLEAR LK 15-UP ARM CL-1			ADADZ				
1015	5050	0	210	7.9			0.6 T	--	--	--	--	0.01	T	--

APPENDIX D

GROUND WATER MEASUREMENTS

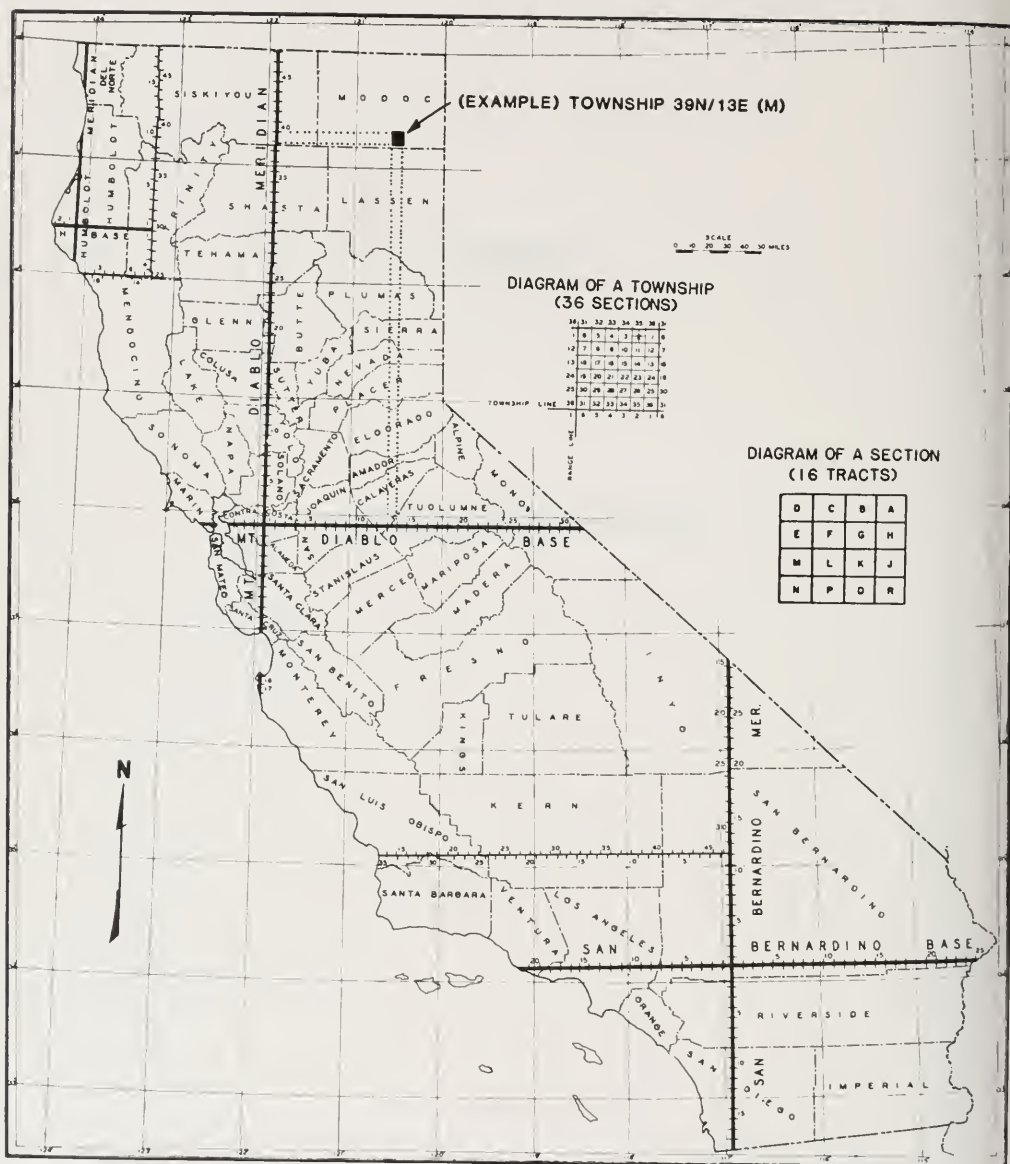


Figure 6. TOWNSHIP AND RANGE SYSTEM OF CALIFORNIA

APPENDIX D

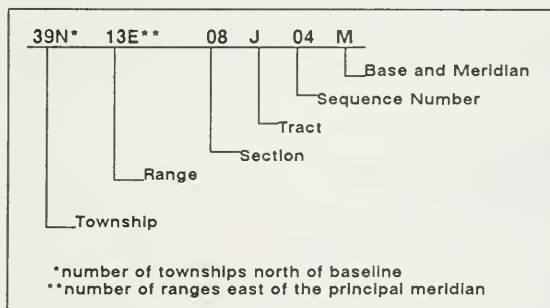
GROUND WATER MEASUREMENTS

Appendix "D" presents depth to water measurements (ground to water) and water surface elevations for selected wells in Northeastern California from October 1, 1984 to September 30, 1985.

The location of a well can be approximated by the well number. The numbering system for wells is based on a rectangular system called the United States System of Surveying the Public Lands, commonly referred to as the Public Lands Survey. This system ties all tracts of land to an initial point and identifies each as being in a particular township. A township is a square parcel of land six miles on each side. Its location is established as being so many six-mile units east or west of a north-south line (*principal meridian*) through the initial point and so many six-mile units north or south of an east-west line (*baseline*) through the point. The meridional (longitudinal) lines parallel to—and east or west of—the principal meridian are called *range lines*. Latitudinal lines parallel to—and north or south of—the baseline are known as *township lines*. Each township is described with respect to the initial point by its distance and direction from that point i.e., north or south and east or west in numbers of six-mile units.

Figure 6 presents the township and range system for California, and shows the three bases and meridians: i.e., the Humboldt (H), Mount Diablo (M) and San Bernardino (S). The figure also numbers the townships and ranges along the principal meridians and baselines, and shows the location of, for example, township 39N/13E M. The location of any township in the State can be found by extending the township and range lines as shown.

Every township is further divided into 36 equal parts called sections. A diagram of a typical township with the sections numbered from 1 to 36 is shown on Figure 6. The well numbering system is an extension of the public land survey system and involves dividing each section of land into sixteen 40-acre tracts with each tract given a letter (A through R) to identify it (Figure 6.) Sequence numbers in a tract are assigned in chronological order. A typical well number consists of 12 characters expressed as follows:



In the above example, this is the fourth well to be assigned a number in Tract J, Section 8 of the designated township.

Ground water measurement stations are listed in the tables by ascending areal code. The areal code is explained on page 2. Individual areal code numbers appear to the left of the areal names, and the

data listed thereunder are in that areal code boundary. The number of ground water stations precludes plotting each individual well on maps in this publication. Instead, Figure 7 shows the locations of the ground water basins in which measurements were taken.

To facilitate station location, the cross reference on page 208 relates the hydrologic areas to the ground water basins shown on Figure 7 and lists the respective areal code. The location and definition of any hydrologic area may be determined by entering Figure 2 (page 4) with the respective areal code. The cross reference also lists the page numbers for the tabulated data.

The dates shown in Table D are the dates when the depth measurements were made.

Some of the measurements in the "ground to water" column may be followed by a single digit in parenthesis, which indicates a questionable measurement. The meaning of these codes is as follows:

- | | |
|---------------------------|--|
| (0) Caved or deepened | (5) Air or pressure gage measurement |
| (1) Pumping | (6) Other |
| (2) Nearby pump operating | (7) Recharge operation at or near well |
| (3) Casing leaking or wet | (8) Oil in casing |
| (4) Pumped recently | (9) Acoustic sounder |

When the letters "NM" followed by a digit in parenthesis appears in the column, it means a measurement was attempted but could not be obtained. The reason for no measurement is described by the digit listed below:

- | | |
|-------------------------------|------------------------------|
| (0) Measurement Discontinued | (5) Unable to locate well |
| (1) Pumping | (6) Well has been destroyed |
| (2) Pump house locked | (7) Special |
| (3) Tape hung up | (8) Casing leaking or wet |
| (4) Cannot get tape in casing | (9) Temporarily inaccessible |

The words "FLOW" and "DRY" also appear in this column to indicate a flowing or dry well, respectively. When a minus sign precedes the value, it indicates that the static water level in a flowing well is that distance in feet above the ground surface.

Elevations are given in feet at USGS mean sea level datum. Ground surface elevations are usually obtained by interpolation between contours of USGS topographic maps.

The final column is the code number for the agency supplying the data. Contributing agencies are:

- 1453 - Yuba County
- 2684 - Solano Irrigation District
- 2925 - U.S. Soil Conservation Service
- 4202 - Sacramento Municipal Utility District
- 5001 - U. S. Bureau of Reclamation
- 5050 - California Department of Water Resources
- 5104 - Yolo County
- 5105 - Glenn County
- 5108 - Sacramento County
- 5110 - San Joaquin County
- 5111 - Lake County
- 5415 - Sutter, South, Water District
- 6244 - Sutter County
- 8201 - East Bay Municipal Utility District

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Appendix D Cross Reference

Ground Water Basin - Areal Code

Ground Water Basin					Ground Water Basin						
No.	Name	Hydrologic Area*	Areal** Code	Date on page	No.	Name	Hydrologic Area*	Areal** Code	Date on page		
		SACRAMENTO	HB	A	210	5-22	San Joaquin Valley	SAN JOAQUIN	HB	B	236
		SACRAMENTO DELTA	HU	A-01	210	5-22	San Joaquin Valley	SAN JOAQUIN DELTA	HU	B-01	236
		VALLEY PUTAH-CACHE	HU	A-02	210	5-22	San Joaquin Valley	NORTH DIABLO RANGE	HU	B-02	237
5-21	Sacramento Valley	Elmira	HA	A-02.A	210	5-22	San Joaquin Valley	NORTH VALLEY FLOOR	HU	B-03	238
5-21	Sacramento Valley	Lower Putah Creek	HA	A-02.B	213	5-22	San Joaquin Valley	Lower Cosumnes - Dry	HA	B-03.A	238
		Lower Cache Creek	HA	A-02.C	215	5-22	San Joaquin Valley	Lower Deer Creek	HSA	B-03.A1	238
		PUTAH CREEK	HU	A-03	216	5-22	San Joaquin Valley	Herald	NSA	B-03.A2	238
5-18	Coyote Valley	Upper Putah Creek	HA	A-03.B	216	5-22	San Joaquin Valley	Lower Mokelumne	HA	B-03.B	240
5-19	Collayson Valley				5-22	San Joaquin Valley	Lower Calaveras	HA	B-03.C	248	
5-67	Clear Lake Pleistocene Volcanics				5-22	San Joaquin Valley	Duck-Littlejohns	HA	B-03.D	249	
		CACHE CREEK	HU	A-04	217						
		Upper Cache Creek	HA	A-04.D	217						
5-30	Lower Lake Valley	Lower Lake	HSA	A-04.D1	217			NORTH LANONTAN	HB	G	251
5-14	Scott Valley	Lucerne	HSA	A-04.03	217			LAKE TAHOE	HU	G-05	251
5-15	Kelseyville Valley (Big Valley)	Lakeport	HSA	A-04.04	217	6-5.01	Tahoe Valley-South	South Tahoe	HA	G-05.A	251
5-13	Upper Lake Valley	Upper Lake	HSA	A-04.D5	218						
		VALLEY-AMERICAN	HU	A-05	218	6-4	Money Lake Valley	SUSANVILLE	HU	G-08	251
5-21	Sacramento Valley	Morrison Creek	HA	A-05.A	218	6-4	Money Lake Valley	Herlong	HA	G-08.A	251
5-21	Sacramento Valley	Franklin	HSA	A-05.A1	218	6-100	Secret Valley	Susan River	HA	G-08.B	251
5-21	Sacramento Valley	Florin	HSA	A-05.A2	219	6-103	Modoc Plateau	Snow Storm Mountain	HA	G-08.D	251
							Pleistocene Volcanic Area				
5-21	Sacramento Valley	Coon American	HA	A-05.B	219	6-2	Madeline Plains	MADELINE PLAINS	HU	G-10	252
5-21	Sacramento Valley	Lower American	HSA	A-05.B1	219	6-1	Surprise Valley	SURPRISE VALLEY	HU	G-12	252
5-21	Sacramento Valley	Pleasant Grove	HSA	A-05.B2	220	6-1	Surprise Valley	Bare Creek	HA	G-12.A	252
						6-1	Surprise Valley	Cedarville	HA	G-12.B	252
						6-1	Surprise Valley	Fort Bidwell	HA	G-12.C	253
		COLUSA BASIN	HU	A-07	222						
5-21	Sacramento Valley	Sycamore-Sutter	HA	A-07.A	222						
5-21	Sacramento Valley	Glenn-Colusa	HA	A-07.B	222						
5-21	Sacramento Valley	Colusa Trough	HSA	A-07.B1	222						
5-21	Sacramento Valley	Orland	HSA	A-07.B2	225						
5-21	Sacramento Valley	Sutter Bypass	HA	A-07.C	226						
5-21	Sacramento Valley	Butte Basin	HA	A-07.D	226						
		MARYSVILLE	HU	A-08	227						
5-21	Sacramento Valley	Lower Bear River	HA	A-08.A	227						
5-21	Sacramento Valley	Olivehurst	HA	A-08.B	227						
5-21	Sacramento Valley	Lower Yuba River	HA	A-08.C	228						
5-21	Sacramento Valley	Lower Feather River	HA	A-08.D	229						
		FEATHER RIVER	HU	A-11	229						
5-11	Mohawk Valley	Middle Fork Feather	HA	A-11.C	229						
5-60	Humboldt Valley	Shoat	HSA	A-11.C2	229						
5-12	Sierra Valley	Sierra Valley	HSA	A-11.C2	229						
			HSA	A-11.C4	229						
		North Fork Feather	HA	A-11.D	231						
5-7	Lake Almanor Valley	Mount Markness	HSA	A-11.D4	231						
		TEHAMA	HU	A-13	231						
5-21	Sacramento Valley	Lower Stony Creek	HA	A-13.A	231						
5-21	Sacramento Valley	Bed Bluff	HA	A-13.B	231						
		REDDING	HU	A-17	233						
5-6	Bedding Basin	Enterprise Flat	HA	A-17.A	233						
5-6	Bedding Basin	Lower Cottonwood	HA	A-17.B	233						
		PIT RIVER	HU	A-23	234						
		McArthur	HA	A-23.C	234						
5-5	Fall River Valley	Big Lake	NSA	A-23.C1	234						
5-40	Hot Springs Valley	Big Lake	NSA	A-23.C1	234						
		Big Valley	HA	A-23.D	234						
5-4	Big Valley	Bieber	HSA	A-23.D1	234						
5-4	Big Valley	Upper Ash Creek	HSA	A-23.D2	234						
		Upper Pit River	HA	A-23.E	234						
5-2	Alturas Basin	Canby	HSA	A-23.E1	234						
5-2.01	S. Fork Pit River and Alturas Area	Alturas	HSA	A-23.E2	234						
5-3	Jess Valley	Jess Valley	HSA	A-23.E3	234						
		LAKEVIEW	HU	A-24	235						
5-1	Goose Lake Valley	Davis Creek	HA	A-24.A	235						

*See page 2.

**See figure 2.

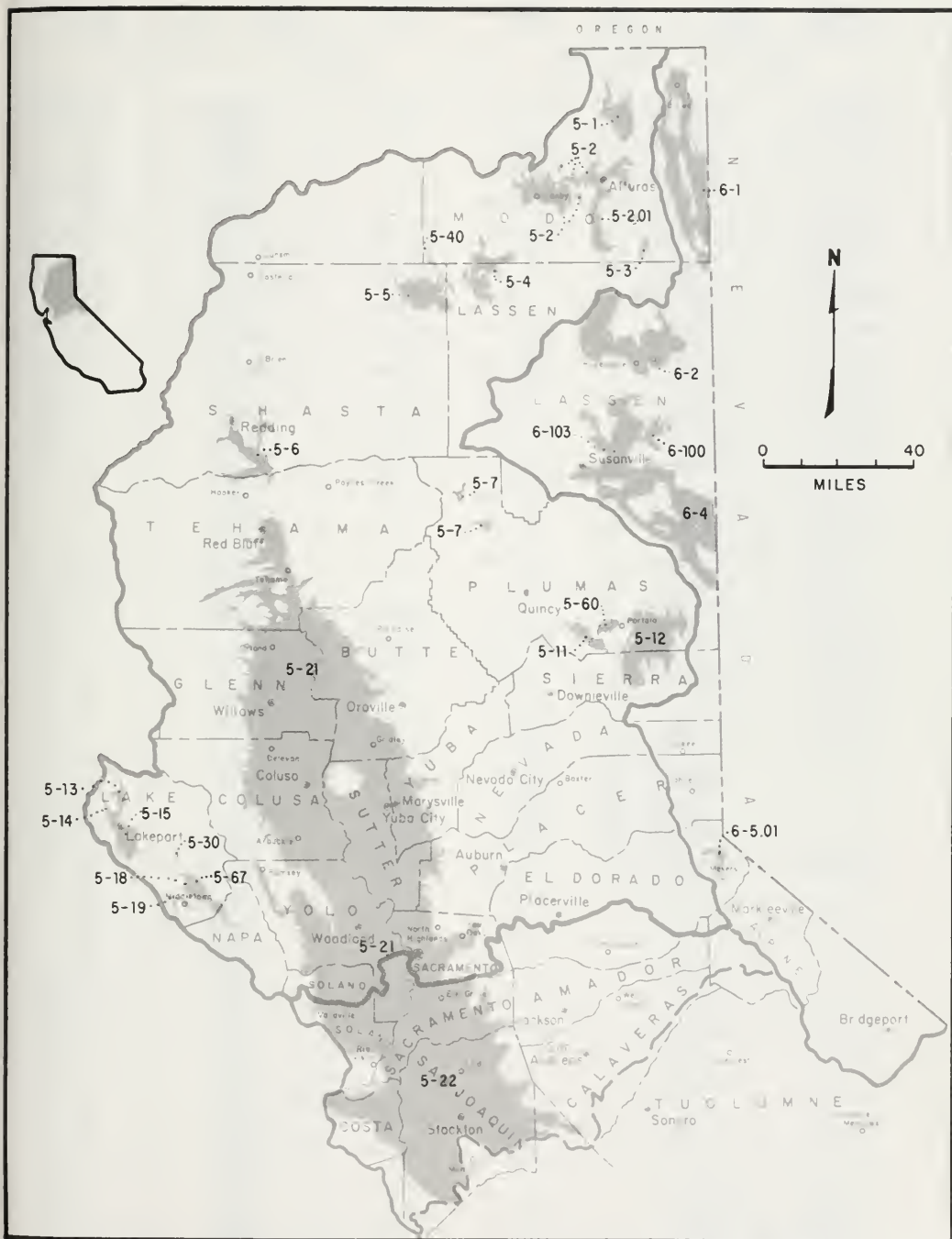


Figure 7 LOCATION OF GROUND WATER BASINS - MEASUREMENT

TABLE D											
GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	*WATER SURFACE ELEV.	AGENCY
A A-01	SACRAMENTO HB SACRAMENTO DELTA HU					A A-02 A-02.4	SACRAMENTO HB VALLEY PUTAH-CACHE HU ELMIRA HA				
03N/02E-19M01 M	16.4	10/03/84 03/15/85	11.0 10.0	5.4 6.4	2684	04N/01E-02E01 M	80.0	10/03/84 11/26/84 12/18/84	8.5 M.6 8.6	51.5 51.4 51.4	5050
03N/02E-23M01 M	10	10/03/84 03/11/85	4.3 3.4	-4.3 -3.4	5050			01/30/85 02/26/85 03/11/85	8.7 8.6 M.6	51.3 51.4 51.4	
03N/02E-36M01 M	17	10/03/84 03/11/85	6.2 5.2	-5.5 -4.5	5050			04/24/85 05/23/85 06/27/85	8.7 M.9 9.0	51.3 51.1 51.0	
03N/03E-16C01 M	12.0	10/10/84 03/04/85	17.4 17.1	-5.4 -5.1	5001			07/30/85 08/26/85 09/16/85	9.3 9.6 9.8	50.7 50.4 50.2	
06N/02E-02M03 M	29.0	10/04/84 03/12/85	11.1 5.4	13.9 19.6	5050	04N/01E-02G01 M	70.0	10/03/84 03/11/85	41.8 37.3	26.2 32.7	5050
06N/02E-08M01 M		10/17/84 03/18/85	NM-1 NM-0		5001	04N/01E-12A01 M	78.0	10/03/84 03/11/85	5.0 4.6	73.0 77.4	5050
06N/02E-09C01 M	23.0	10/17/84 03/18/85	16.7 13.3	4.3 7.7	5001	04N/02E-09A01 M	39.0	10/05/84 03/15/85	16.8 17.0	22.2 22.0	2684
06N/02E-13M01 M	10.0	10/17/84 03/12/85	4.1 4.8	5.9 9.2	5001	04N/02E-22P01 M	70.0	10/03/84 03/11/85	38.7 38.7	31.3 31.3	5050
06N/03E-07M01 M	15.0	10/17/84 03/12/85	10.9 6.2	4.1 8.8	5001	05N/01E-03P01 M	35.0	10/03/84 03/11/85	10.9 9.7	24.1 25.3	5050
06N/03E-13M01 M	4.0	04/05/85	2.5	1.5	5050	05N/01E-11M01 M	24.5	10/29/84 03/11/85	16.1(8) 12.8(8)	8.4 8.4	5050
06N/03E-23P01 M	4.9	04/05/85	3.0	1.9	5050	05N/01E-26M02 M	19.0	10/05/84 03/22/85	3.4 1.1	15.8 17.9	2684
06N/04E-24A01 M	10.0	03/15/85	27.4	-17.4	5050	05N/02E-03C01 M	12.0	10/03/84 11/26/84 12/18/84	7.6 5.7 3.6	4.4 6.3 8.4	5050
06N/05E-17F01 M	16.0	10/10/84 03/04/85	62.9 58.8	-46.9 -42.8	5001			01/30/85 02/26/85 03/11/85	4.0 3.2 3.4	8.0 8.8 8.6	
06N/05E-31A02 M	12.0	10/10/84 03/04/85	43.1 35.9	-31.1 -23.9	8001			04/24/85 05/23/85 06/27/85	4.3 6.4 6.3	7.7 5.6 5.7	
07N/03E-19M01 M	21.0	10/17/84 03/12/85	17.2 11.3	3.8 9.7	5001			07/30/85 08/26/85 09/16/85	5.3 4.8 4.6	6.7 7.2 7.4	
07N/03E-30M01 M	17.0	10/17/84 03/12/85	7.3 5.8	9.7 11.2	5001	05N/02E-07R01 M	15.0	10/05/84 03/15/85	14.7 11.2	3.3 3.8	2684
07N/04E-11K01 M	17.3	10/10/84 03/21/85	8.7 10.9	8.6 6.4	5108	05N/02E-07R02 M	15.0	10/05/84 03/15/85	13.9 11.9	1.1 3.1	2684
08N/03E-13D01 M	14.0	04/05/85	7.1	6.9	5050	05N/02E-31J01 M	31.0	10/03/84 03/11/85	11.5 12.6	19.3 18.4	5050
08N/03E-21P02 M	16.0	04/05/85	12.7	3.3	5050	06N/01E-02R01 M	46.0	10/29/84 03/12/85	34.6 18.9	11.4 27.2	5050
08N/04E-06C01 M	10.0	10/26/84 03/28/85	8.1 5.6	1.9 4.4	5050	06N/01E-05A01 M	62.0	10/04/84 03/12/85	7.0 9.8(4)	35.0 52.2	5050
06N/04E-18L01 M	10.0	04/05/85	6.6	3.4	5050	06N/01E-06D01 M	77.0	10/15/84 03/14/85	10.0 9.3	67.0 67.7	2684
09N/04E-32R01 M	12.0	10/26/84 11/29/84 12/20/84 01/27/85 02/27/85 03/26/85 04/26/85 05/29/85 06/27/85 07/29/85 08/26/85 09/27/85	25.3 23.2 22.8 22.3 24.1 22.6 NM-3 29.1 35.1 35.0 34.7 32.9	-13.3 -11.2 -10.8 -10.3 -12.1 -10.6 -17.1 -23.1 -23.9 -22.7 -20.9	5050	06N/01E-10M01 M	52.0	10/04/84 03/12/85	7.5 9.9	44.9 42.1	5050
09N/04E-34K01 M	18.4	10/26/84 04/03/85	13.7 12.1	4.7 6.3	5050	06N/01E-12M01 M	40.0	10/04/84 11/26/84 12/18/84 01/30/85 02/26/85 03/12/85 04/24/85 05/23/85 06/27/85 07/30/85 08/26/85 09/16/85	12.1 28.9 11.0 10.8 9.4 9.6 9.9 10.9(2) 10.4 9.5 11.2 11.8	27.9 28.1 29.0 29.2 30.6 30.4 30.1 29.1 29.6 30.3 28.6 26.2	5050
						06N/01E-12M03 M	40.0	10/04/84 03/12/85	25.0 17.2	15.0 22.8	5050
						06N/01E-17M01 M	63.0	10/04/84 03/12/85	9.8 8.8	53.2 54.2	5050
						06N/01E-18M01 M	72.7	10/05/84 03/14/85	5.2 3.6(8)	67.5 69.1	2684
						06N/01E-24L03 M	32.0	10/04/84 03/11/85	6.4 4.4	25.6 26.6	5050
						06N/01E-27G02 M	41.2	10/15/84 03/15/85	9.4 10.0	31.8 31.2	2684
						06N/01E-28M01 M	47.0	10/03/84 03/12/85	9.4 9.0	37.6 38.0	5050
						06N/01E-31A01 M	60.0	10/03/84 03/12/85	10.2 9.9	49.9 50.1	5050
						06N/01E-33L01 M	43.0	10/03/84 10/15/84 11/26/84 12/18/84 01/30/85 02/26/85 03/11/85	8.1 8.0 8.0 7.7 7.7 7.3 7.3	34.0 35.0 35.0 35.3 35.3 35.7 35.7	5050 5050 5050 5050 5050 5050 5050

TABLE O (CONTINUED)

GRJUNO WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-02 A-02.4	SACRAMENTO HB VALLEY PUTAH-CACHE HU ELMIRA HA					A A-02 A-02.4	SACRAMENTO HB VALLEY PUTAH-CACHE HU ELMIRA HA				
06N/01E-33L01 M	43.0	03/14/85 04/24/85 05/23/85 08/27/85 07/30/85 08/26/85 09/16/85	7.2 7.2 6.6 6.5 NM-1 7.1 7.4	35.8 35.8 36.4 36.7 NM-1 35.9 35.6	2684 3050	07N/01E-33R01 M	60.0	08/26/85 09/16/85	5.5 6.3	34.5 33.7	3050
06N/02E-19J01 M	23.0	10/04/84 03/12/85	12.0 6.9	11.0 10.1	3030	07N/02E-02F02 M	33.0	10/04/84 03/12/85	45.4(8) 29.0(6)	-12.4 4.0	3050
06N/02E-20H02 M	20.0	10/04/84 03/12/85	13.2(8) 8.2(8)	6.5 11.8	3050	07N/02E-04M03 M	52.5	10/17/84 03/15/85	43.0 32.4	9.5 20.1	3001
06N/02E-26G01 M	8.0	10/05/84 03/22/85	6.8 6.4	1.2 1.6	2684	07N/02E-06N02 M	55.0	10/17/84 03/16/85	22.7 25.6	32.3 39.4	3001
07N/01E-03G01 M	82.0	10/17/84 03/13/85	NM-9 23.3	56.7	3001	07N/02E-09F01 M	51.0	10/17/84 03/16/85	30.6 28.9	20.4 22.1	3001
07N/01E-04P03 M	89.0	10/17/84 03/18/85	13.5 17.7	75.5 71.3	3001	07N/02E-11G01 M	30.0	10/17/84 03/12/85	33.6 25.6	-3.6 4.4	3001
07N/01E-09F01 M	91.7	10/17/84 03/15/85	NM-9 16.9	74.8	3001	07N/02E-12C01 M	27.0	10/17/84 03/12/85	32.2 27.7	-5.2 -7	3001
07N/01E-08F03 M		10/17/84 03/16/85	NM-9 NM-9		3001	07N/02E-14F02 M	31.0	10/17/84 03/12/85	26.3 22.1	4.7 8.9	3001
07N/01E-08N02 M	89.0	10/04/84 11/26/84 12/18/84 01/30/85 02/26/85 03/12/85 04/24/85 05/23/85 06/27/85 07/30/85 08/26/85 09/16/85	9.3(4) 3.0 2.6 2.8 2.1 2.0 3.6 4.2 6.5 5.9 5.1 10.1	75.5 82.0 82.4 82.2 82.9 81.2 80.8 78.5 79.1 79.9 74.9	3050	07N/02E-19E01 M	42.0	10/17/84 03/12/85	32.3 26.8	9.7 15.2	3001
07N/01E-10E01 M	78.5	10/17/84 03/18/85	11.4 16.2	67.1 62.3	3001	07N/02E-19E01 M	50.3	10/17/84 03/16/85	32.2 25.9	18.1 24.0	3001
07N/01E-11M01 M	75.0	10/17/84 03/16/85	20.0 21.6(8)	55.0 53.2	3001	07N/02E-24N01 M	23.0	10/04/84 11/26/84 12/18/84 01/30/85 02/26/85 03/12/85 04/24/85 05/23/85 06/27/85 07/30/85 08/26/85 09/16/85	11.9 12.2 11.5 12.1 11.2 11.4 11.5 11.5 12.9 10.1 12.9 10.9 11.6	11.1 10.8 11.9 11.9 11.8 11.6 11.5 13.1 12.9 12.1 12.1 11.6	3050
07N/01E-12N02 M	64.0	10/04/84 10/17/84 11/26/84 12/18/84 01/30/85 02/26/85 03/12/85 04/24/85 05/23/85 06/27/85 07/30/85 08/26/85 09/16/85	18.5 19.4 19.0 18.3 19.1 18.7 18.6 18.5 17.2 16.7 19.1 20.3 21.0	45.5 44.6 43.0 44.9 45.3 45.4 45.5 46.8 47.3 44.9 43.7 43.0	5030 5001 5050	07N/02E-26G01 M	27.5	10/17/84 03/12/85	16.7 15.8	10.8 11.7	3001
07N/01E-16R02 M	75.0	10/17/84 03/18/85	20.6 17.7	54.4 57.3	3001	07N/02E-30N03 M	43.0	10/17/84 03/16/85	34.7 23.3	8.3 19.7	3001
07N/01E-16O02 M	80.0	10/17/84 03/18/85	8.4 7.2	71.6 72.8	3001	07N/02E-33O02 M	39.0	10/17/84 03/12/85	34.2 29.9	-1.2 7.1	3001
07N/01E-21H03 M	70.5	10/17/84 03/18/85	27.1 16.5	43.4 54.0	3001	07N/02E-34C02 M	39.0	10/17/84 03/12/85	34.1 26.0	.9 9.0	3001
07N/01E-26G02 M	55.0	10/17/84 03/18/85	NM-9 16.7	38.3	3001	07N/03E-04O01 M	19.0	04/08/85	12.1	6.9	3050
07N/01E-27M04 M	69.7	10/17/84 03/18/85	36.2 19.0	29.5 46.7	3001	07N/03E-08J03 M	17.0	04/08/85	11.7	5.3	3050
07N/01E-29P01 M	74.0	10/17/84 03/15/85	11.2 10.6	62.8 63.4	3001	07N/03E-08M03 M	19.0	10/17/84 03/12/85	NM-9 16.9	2.2	3001
07N/01E-30H01 M	87.0	10/17/84 03/15/85	6.2 3.2	80.8 81.8	3001	07N/03E-17F01 M	15.0	04/08/85	7.5	8.5	3050
07N/01E-33A01 M	85.0	10/11/84 10/15/84 11/13/84 12/02/84 01/02/85 02/12/85 03/01/85 03/18/85 04/02/85 05/03/85 06/05/85 07/10/85 08/11/85 09/01/85	NM-1 34.5 44.5 44.7 43.4(3) 42.2(3) 41.8(3) 16.9 19.6 38.0 39.3 NM-1 NM-1 31.6	30.5 20.5 21.6 22.8 21.2 48.1 48.4 27.0 25.7	3001	08N/01E-19K01 M	104.0	10/18/84 03/15/85	33.6 31.6	70.4 72.4	3001
07N/01E-33R01 M	60.0	10/04/84 11/26/84 12/18/84 01/30/85 02/26/85 03/12/85 04/24/85 05/23/85 06/27/85 07/30/85	8.4 7.7 7.5 8.6 7.2 7.3 7.4 3.6 4.4 4.3	51.6 52.3 52.5 51.4 52.4 52.7 52.6 56.4 55.6 55.7	3050	08N/01E-20G01 M	98.0	10/18/84 03/15/85	31.6 29.3	66.4 68.7	3001
						08N/01E-23C01 M	84.2	10/17/84 03/13/85	NM-9 40.9	43.3	3001
						08N/01E-23O01 M	73.0	10/17/84 03/13/85	30.6 27.6	42.4 45.4	3001
						08N/01E-24O01 M	68.0	10/17/84 03/13/85	46.7 32.2	19.3 39.8	3001
						08N/01E-27G02 M	80.0	10/18/84 03/15/85	21.1 20.8	58.9 59.2	3001
						08N/01E-28G01 M	92.0	10/18/84 03/15/85	25.1 24.7	66.7 67.3	3001
						08N/01E-30G02 M	110.0	10/19/84 03/15/85	34.0 32.3	76.0 77.7	3001
						08N/01E-32E01 M	100.0	10/18/84 03/15/85	29.8 25.3	74.2 74.7	3001
						08N/01E-33M03 M	92.0	10/18/84 03/15/85	13.7(3) 13.4	66.3 66.6	3001
						08N/01E-33O02 M	46.0	10/04/84 11/26/84 12/18/84 01/30/85 02/26/85 03/12/85 04/24/85 05/23/85 06/27/85 07/30/85	13.7 16.3 17.2 18.3 18.8 19.0 19.5 12.1 11.1 NM-1	72.3 69.7 68.8 67.7 67.2 67.0 67.5 73.9 74.9	3050

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-02 A-02.4	SACRAMENTO HB VALLEY PUTAH-CACHE HU ELMIRA HA					A A-02 A-02.4	SACRAMENTO HB VALLEY PUTAH-CACHE HU ELMIRA HA				
08N/01E-33002 M	86.0	08/26/85 09/16/85	NA-1 15.7	70.3	5050	06N/01W-12001 M	77.0	10/03/84 03/12/85	9.0 7.4	68.0 69.6	5050
08N/01E-33003 M	85.7	10/18/84 03/15/85	12.0 16.7	73.7 69.0	5001	06N/01W-13801 M	74.5	10/03/84 03/12/85	5.5 5.3	69.0 71.2	5050
08N/01E-35K01 M	73.0	10/17/84 03/13/85	44.2 27.1	28.8 45.9	5001	06N/01W-15901 M	123.0	10/04/84 03/11/85	112.9 106.4	10.1 16.6	5050
08N/02E-19F02 M	70.0	10/17/84 03/13/85	41.1 35.7	28.9 34.3	5001	06N/01W-20001 M	201.0	10/13/84 03/14/85	16.6 12.7	184.4 188.3	2684
08N/02E-27C02 M	51.5	10/17/84 03/12/85	40.4 30.1	11.1 21.4	5001	06N/01W-23801 M	93.0	10/05/84 03/14/85	15.2 14.2	77.8 78.8	2684
08N/02E-27Q02 M	45.0	10/17/84 03/12/85	40.9 29.5	4.1 15.5	5001	06N/01W-23C01 M	100.0	10/05/84 03/15/85	22.3 22.6	77.7 77.4	2684
08N/02E-30N02 M	62.0	10/18/84 10/27/84 11/13/84 12/02/84 01/02/85 02/06/85 03/01/85 03/13/85 04/02/85 05/03/85 06/05/85 07/10/85 08/11/85 09/01/85	36.5 37.2(8) 37.4 37.8(6) 37.1(8) 32.1(8) 31.2(8) 31.0 31.6(8) NA-1 NA-1 NA-1 NA-1 NA-1	25.5 24.8 24.6 24.2 24.9 29.9 30.8 31.0 30.4 31.0 30.4 13.5	5001	06N/01W-24N01 M	88.0	10/03/84 03/12/85	11.7 11.7	76.3 76.3	5050
						06N/01W-24M02 M	90.0	10/03/84 03/12/85	130.7 153.5	-49.7 -63.9	5050
						06N/01W-36C04 M	80.0	10/03/84 03/12/85	15.7 16.7	64.3 63.3	5050
						07N/01W-01E03 M	103.0	10/16/84 03/15/85	18.3 16.4(1)	84.7 84.6	5001
						07N/01W-04001 M	145.0	10/16/84 03/14/85	46.3 43.5	98.7 101.5	5001
08N/02E-31D01 M	65.0	10/17/84 03/13/85	32.7 25.9	32.3 39.1	5001	07N/01W-05R01 M		10/16/84 03/14/85	NA-9 60.1	109.9	5001
08N/02E-32N01 M	57.0	10/17/84 03/18/85	33.5(8) 29.0(8)	23.5 28.0	5001	07N/01W-06E01 M		10/16/84 03/14/85	NA-9 67.7(3)	89.3	5001
08N/02E-32R01 M	55.5	10/17/84 03/18/85	48.2 25.7	7.3 29.8	5001	07N/01W-13H01 M	105.0	10/16/84 03/15/85	10.9 10.2	94.1 94.8	5001
08N/02E-35F03 M	41.0	10/11/84 10/17/84 11/13/84 12/02/84 01/02/85 02/12/85 03/01/85 03/12/85 04/02/85 05/03/85 06/05/85 07/10/85 08/11/85 09/01/85	47.1 41.5 41.2 41.1 38.7(3) 35.2 36.1 31.2 35.9 NA-1 NA-1 NA-1 NA-1 NA-1	-6.1 -5 -2 -1 2.3 5.8 4.9 9.8 5.1 NA-1 NA-1 NA-1 NA-1 NA-1	5001	07N/01W-16G01 M	230.0	10/16/84 03/15/85	NA-9 112.9	117.1	5001
						07N/01W-17001 M	225.0	10/16/84 03/15/85	NA-9 9.5	141.5	5001
						07N/01W-27R01 M	125.0	10/16/84 03/15/85	61.3 59.3	63.7 65.7	5001
						07N/01W-27R02 M	116.0	10/04/84 03/12/85	72.8 50.7	63.2 65.3	5050
						07N/01W-33J02 M	130.0	10/04/84 03/12/85	90.0 78.9	40.0 51.1	5050
08N/03E-28H01 M	20.0	04/08/85	11.8	8.2	5050	07N/01W-34F01 M	140.0	10/04/84 03/12/85	111.0 97.1	29.0 42.9	5050
08N/03E-31N01 M	32.0	10/17/84 10/27/84 11/13/84 12/02/84 01/02/85 02/12/85 03/01/85 03/12/85 04/01/85 04/08/85 05/03/85 06/05/85 07/10/85 08/11/85 09/01/85	32.8 32.0 31.1 30.7 29.2 30.7 36.1 31.2 35.9 NA-1 NA-1 NA-1 NA-1 NA-1	-8 0 9 1.3 2.8 5.8 4.9 9.8 5.4 5.5 8 -9 -7 -12 -11	5001	07N/01W-35R01 M	91.0	10/16/84 03/15/85	10.0 9.5	81.0 81.5	5001
						08N/01W-22P01 M	129.0	10/16/84 03/14/85	44.6 39.6	84.4 89.4	5001
						08N/01W-24D01 M	118.0	10/18/84 03/15/85	33.2 30.9	84.8 87.1	5001
						08N/01W-25A02 M	114.0	10/16/84 03/15/85	36.0(3) 34.0	78.0 80.0	5001
						08N/01W-26A02 M	121.6	10/18/84 03/14/85	40.2 37.8	81.4 83.8	5001
08N/03E-32G01 M	21.0	04/08/85	17.1	3.9	5050	08N/01W-26D05 M	126.2	10/16/84 03/14/85	41.4 37.8	84.8 88.4	5001
08N/03E-32L01 M	25.0	04/08/85	18.8	6.2	5050	08N/01W-26K02 M	116.0	10/16/84 03/14/85	NA-9 28.9	87.1	5001
05N/01W-02R01 M	97.0	10/05/84 03/12/85	1(16) 16.6	96.9 80.4	5050	08N/01W-27L01 M	135.0	10/16/84 03/14/85	36.1 NA-2	96.9	5001
05N/01W-12H01 M	60.0	10/05/84 03/12/85	7.4 8.1	52.6 51.9	5050	08N/01W-28B02 M	139.0	10/16/84 03/14/85	47.3 41.7	91.7 97.3	5001
06N/01W-01R01 M	82.0	10/04/84 10/05/84 11/26/84 12/18/84 01/30/85 02/26/85 03/12/85 03/14/85 04/24/85 05/23/85 06/27/85 07/30/85 08/26/85 09/16/85	20.2 61.0 18.7 17.7 17.7 16.7 16.6 16.6 16.6 17.2 18.7 18.7 19.6 19.8	61.8 20.4 65.3 64.3 64.3 65.3 65.4 65.4 65.4 64.8 63.3 63.3 62.4 62.2	5050 2684 5050	08N/01W-28J01 M	139.0	10/04/84 10/16/84 11/26/84 12/21/84 01/30/85 02/26/85 03/12/85 03/15/85 04/24/85 05/23/85 06/27/85 07/30/85 08/26/85 09/16/85	42.5 42.5 41.0 40.9 41.2 42.8(2) NA-1 44.5(2) 47.7(2) NA-1 NA-1 NA-1 NA-1	95.5 91.8 97.0 97.6 97.5 97.0 97.1 96.8 95.2 95.2 92.5 90.3	5050 5001 5050 5001 5001 5001 5001 5001 5001 5001 5001 5001
06N/01W-09L02 M	175.0	10/15/84 03/22/85	5 0	174.5 175.0	2684	08N/01W-29M01 M	135.0	10/16/84 03/14/85	44.4 36.0	105.6 104.0	5001
06N/01W-10R01 M	100.0	10/04/84 03/11/85	28.6 26.2	71.4 73.8	5050	05N/01W-32H01 M	140.0	10/16/84 03/14/85	40.5(3) 36.0	99.5 104.0	5001
06N/01W-10R04 M	100.0	10/04/84 03/11/85	25.8 22.9	74.2 77.1	5050	08N/01W-32N03 M		10/19/84	NA-7		5001

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-02 A-02.A	SACRAMENTO MB VALLEY PUTAH-CACHE HU ELMIRA WA					A A-02 A-02.B	SACRAMENTO MB VALLEY PUTAH-CACHE HU LOWER PUTAH CREEK WA				
08N/01V-32M03 M	181.0	03/14/85	72.5	108.5	5001	08N/02E-16M01 M	58.0	06/05/85 07/10/85 08/11/85 09/01/85	49.2 68.6 63.3 57.7	8.8 -10.6 -5.3 .3	5001
08N/01V-33A01 M	134.7	10/16/84 03/14/85	38.8(3) 35.6	95.9 99.1	5001	08N/02E-17M01 M	59.0	10/17/84 03/13/85	35.1 29.6	23.9 29.2	5001
08N/01V-33B02 M	136.0	10/16/84 03/14/85	38.5 36.3	97.5 99.7	5001	08N/02E-18M02 M	66.0	10/17/84 03/13/85	36.9 34.7	27.1 31.3	5001
08N/01V-34A01 M	120.0	10/16/84 03/14/85	37.1 34.9	82.9 85.1	5001	08N/02E-19M01 M	67.0	10/11/84 10/17/84 11/13/84 12/02/84 01/32/85 02/12/85 03/01/85 03/13/85 04/01/85 05/03/85 06/05/85 07/10/85 08/11/85 09/01/85	39.2 39.3 36.9 36.5 39.1 36.1 34.9 34.7 34.2 35.2 36.8 42.2 43.9 43.9	27.8 27.9 26.1 28.5 27.9 30.9 32.1 32.3 32.8 31.8 28.2 24.8 23.5 23.1	5001
08N/01V-35G02 M	111.0	10/16/84 03/14/85	27.7 27.1	83.3 83.9	5001	08N/02E-20G01 M	59.5	10/17/84 03/13/85	43.3 35.3	16.2 24.0	5001
08N/01V-36M01 M	102.0	10/16/84 03/13/85	20.5 NM-1	81.5	5001	08N/02E-21L01 M	58.0	10/17/84 03/13/85	42.0 31.2	16.0 26.8	5001
A-02.B LOWER PUTAH CREEK WA						08N/02E-24M01 M	37.5	10/17/84 10/27/84 11/13/84 12/02/84 01/32/85 02/08/85 03/01/85 03/12/85 04/01/85 05/03/85 06/05/85 07/10/85 08/11/85 09/01/85	32.9 30.8 30.8(8) 30.3(8) 30.7(8) 29.1 29.2 23.6 22.6 NM-1 29.6 54.7 NM-1 50.5	4.8 6.7 8.7 7.2 6.8 6.4 12.3 13.7 14.9 7.9 -17.2 -13.0	5001
08N/01E-01J02 M	69.0	10/24/84 03/20/85	16.3 16.4	46.7 46.6	5104	08N/03E-04R01 M	16.0	10/29/84 11/29/84 12/20/84 01/29/85 02/27/85 03/26/85 04/26/85 05/29/85 06/26/85 07/29/85 08/26/85 09/25/85	14.5 12.0 10.5 9.2 7.9 7.7 11.6 16.7 16.1 20.1 19.3 19.3 17.8	1.5 4.0 5.5 6.8 6.1 6.3 4.4 -7.7 -2.1 -4.5 -3.3 -1.8	5050
08N/01E-04G02 M	95.0	10/24/84 03/13/85	19.3 18.3(4)	75.7 76.5	5104	08N/03E-07M01 M	32.4	10/29/84 11/29/84 12/20/84 01/29/85 02/27/85 03/26/85 04/26/85 05/29/85 06/26/85 07/29/85 08/26/85 09/25/85	14.5 12.0 10.5 9.2 7.9 7.7 11.6 16.7 16.1 20.1 19.3 19.3 17.8	1.5 4.0 5.5 6.8 6.1 6.3 4.4 -7.7 -2.1 -4.5 -3.3 -1.8	5050
08N/01E-07M01 M	105.0	10/24/84 03/13/85	19.7 23.7	85.3 81.3	5104	08N/03E-09M03 M	37.0	04/05/85	24.4	12.8	5050
08N/01E-09E01 M	97.0	10/24/84 03/13/85	17.9 19.4	79.1 77.6	5104	09N/01E-01L01 M	74.0	10/25/84 03/14/85	40.0 34.4	34.0 39.6	5104
08N/01E-09R01 M	90.5	10/29/84 11/29/84 12/20/84 01/29/85 02/27/85 03/26/85 04/26/85 05/29/85 06/26/85 07/29/85 08/26/85 09/25/85	26.3 27.9 27.2 63.4 63.4 63.0 62.8 34.2 92.3 42.6 47.3 31.1 97.1	62.2 63.0 63.4 63.4 63.0 62.8 34.2 92.3 42.6 47.3 31.1 97.1	5050	09N/01E-02M01 M	87.0	10/25/84 03/14/85	44.4 44.9	42.6 42.1	5104
08N/01E-10M01 M	91.3	10/25/84 03/21/85	37.1 34.5	54.2 56.8	5104	09N/01E-03A02 M	91.0	10/25/84 03/14/85	62.0 51.8	29.0 39.2	5104
08N/01E-11F01 M	78.0	10/24/84 03/21/85	22.0 23.0	56.0 55.0	5104	09N/01E-03C03 M	96.0	10/25/84 03/14/85	62.7 57.6	33.3 38.4	5104
08N/01E-12O01 M	70.0	10/24/84 03/21/85	19.5 30.0	50.5 40.0	5104	09N/01E-03E02 M	116.0	10/22/84 03/04/85	8.4 6.4	107.8 109.6	5104
08N/01E-12B03 M	64.0	10/17/84 03/14/85	24.4 23.0	39.6 41.0	5001	09N/01E-07D01 M	121.0	10/22/84 03/04/85	12.9 8.6	106.1 112.4	5104
08N/01E-14P01 M	74.0	10/25/84 03/21/85	37.1 26.6	41.9 50.4	5104	09N/01E-09O01 M	112.0	10/25/84 03/14/85	30.9 24.1	81.1 87.9	5104
08N/01E-15B01 M	85.0	10/25/84 10/29/84 11/29/84 12/20/84 01/29/85 02/27/85 03/21/85 03/26/85 04/26/85 05/29/85 06/26/85 07/29/85 08/26/85 09/25/85	19.6 19.8 20.6 21.0 21.6 21.9 22.4 22.3 22.6 19.7 19.6 20.2 20.6 22.1	65.4 65.2 64.4 64.0 63.4 63.1 62.6 62.7 62.4 63.1 63.2 64.8 64.2 62.9	5050	09N/01E-12M01 M	81.0	10/25/84 03/14/85	26.2 30.0	52.8 51.0	5104
08N/01E-15P02 M	64.0	03/15/85	32.1	51.9	5001	09N/01E-12O01 M	71.0	10/25/84 03/14/85	23.8 26.0	47.4 45.0	5104
08N/01E-16B01 M	93.5	10/16/84 03/14/85	34.0 27.0	96.5 85.7	5001	09N/01E-16A01 M	92.0	10/25/84 03/14/85	12.8 11.8	79.2 80.4	5104
08N/01E-17D01 M	102.0	10/24/84 03/13/85	26.2(6) 24.0	75.6 78.0	5104	09N/01E-20E01 M	112.0	10/24/84 03/15/85	12.0 7.4(6)	100.0 104.6	5104
08N/01E-17F01 M	101.0	10/18/84 03/14/85	NM-7 31.6	69.4	5001	09N/01E-22B01 M	85.0	10/29/84	13.5	72.5	5050
08N/02E-01K01 M	34.0	10/18/84 03/13/85	33.3 17.1	.7 16.9	5001						
08N/02E-03J01 M	40.0	10/18/84 03/13/85	42.3 33.4(8)	-2.3 16.6	5001						
08N/02E-04E01 M	52.0	10/18/84 03/13/85	24.6 18.7	27.4 33.3	5001						
08N/02E-09A01 M	43.0	10/24/84 03/20/85	26.5 17.6	16.5 25.2	5104						
08N/02E-14M03 M	45.0	04/08/85	24.2	16.8	5050						
08N/02E-16M01 M	58.0	10/11/84 10/17/84 11/13/84 12/02/84 01/02/85 02/12/85 03/01/85 03/12/85 04/01/85 05/03/85	44.8 43.0 43.4 43.6 35.9 35.2 37.6 35.0 34.3 47.1	13.2 14.3 14.6 14.4 22.1 22.8 20.4 23.0 23.7 10.9	5001						

TABLE D (CONTINUED)

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	GROUND SURFACE ELEV.	WATER AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A 4-02 4-02.8	SACRAMENTO HB VALLEY PUTAM-CACHE HU LOWER PUTAM CREEK HA					A 4-02 4-02.8	SACRAMENTO HB VALLEY PUTAM-CACHE HU LOWER PUTAM CREEK HA				
09H/01E-22801 M	86.0	11/20/84 12/20/84 01/20/85 02/27/85 03/26/85 04/26/85 05/20/85 06/26/85 07/20/85 08/26/85 09/23/85	12.5 12.7 13.4 13.9 14.0 13.9 13.0 12.3 12.5 12.4 12.2	73.5 73.3 72.6 72.1 72.0 72.1 71.0 73.7 73.5 73.6 73.8	5050	10H/01E-28001 M		10/30/84	NM-4		9104
						10H/01E-31E01 M	128.0	10/22/84 03/04/85	24.4 23.3	103.6 104.5	5104
						10H/01E-33L02 M	132.0	10/22/84 03/04/85	74.5 69.2	57.5 62.8	5104
						10H/01E-33N01 M	132.0	10/23/84 03/04/85	19.9 21.7	112.1 110.3	5104
						10H/01E-33P01 M	130.0	10/25/84 03/14/85	64.9 NM-9	65.1	5104
09H/01E-24001 M	67.0	10/24/84 03/20/85	10.6 13.7	56.4 53.3	5104	10H/01E-34A03 M	100.0	10/25/84 03/14/85	68.3 63.3	31.7 36.3	5104
09H/01E-26401 M	77.0	10/25/84 03/21/85	6.8 3.7	70.2 71.3	5104	10H/01E-36002 M	85.0	10/25/84 03/14/85	51.8 46.1	31.2 36.9	5104
09H/01E-27001 M	87.0	10/25/84 03/21/85	14.2 NM-8	72.8	5104	10H/02E-08001 M	63.0	10/28/84 03/20/85	33.4 28.5	29.6 34.5	5104
09H/01E-28001 M	102.0	10/24/84 03/05/85	6.9 6.7	95.1 93.3	5104	10H/02E-10P01 M	47.0	10/29/84 03/20/85	26.8 19.1	20.2 27.9	5104
09H/01E-31001 M	116.0	10/24/84 03/05/85	7.9 6.8	108.1 109.2	5104	10H/02E-12A01 M	35.0	10/29/84 03/20/85	23.0 15.1	12.0 19.9	5104
09H/01E-33H02 M	75.0	10/25/84 03/21/85	17.5 19.1	57.5 55.9	5104	10H/02E-14E01 M	35.0	10/29/84 03/20/85	9.0 7.5	27.0 28.5	5104
09H/01E-36A01 M	66.0	10/17/84 03/13/85	20.5 19.8	47.5 46.2	5001	10H/02E-15H01 M	45.0	10/29/84 03/20/85	26.9 16.2(8)	18.1 28.8	5104
09H/02E-07A01 M	72.0	10/25/84 03/14/85	42.0 36.6	30.0 35.4	5104	10H/02E-18M01 M	74.0	10/29/84 03/20/85	43.6 44.7	30.4 29.3	5104
09H/02E-07K01 M	70.0	10/25/84 03/14/85	NM-9 40.6		5104	10H/02E-19M03 M	73.0	10/29/84 03/20/85	42.8 36.5	30.2 36.3	5104
09H/02E-07L01 M	66.0	10/25/84 03/14/85	47.5 34.0	18.5 32.0	5104	10H/02E-24R01 M		10/25/84 03/20/85	NM-4 NM-4		5104
09H/02E-09B01 M	53.0	10/25/84 03/14/85	29.3(8) 20.5(8)	23.7 32.5	5104	10H/02E-26001 M	32.0	10/29/84 03/20/85	24.9 7.6	7.1 24.2	5104
09H/02E-10E01 M	46.0	10/25/84 03/14/85	23.3 16.9	22.7 29.1	5104	10H/02E-28A02 M	45.0	10/29/84 03/20/85	24.5 17.6	20.9 26.4	5104
09H/02E-13N01 M	32.0	10/25/84 03/14/85	11.5 4.8	20.5 27.2	5104	10H/02E-29A01 M	55.0	10/22/84 04/04/85	18.1 16.8	36.9 38.4	5050
09H/02E-16N01 M	52.0	10/29/84 11/29/84 12/20/84 01/29/85 02/27/85 03/26/85 04/26/85 05/20/85 06/26/85 07/20/85 08/26/85 09/23/85	20.7 18.3 17.4 16.6 16.5 19.1 29.4 37.7 43.0 40.8 34.3 31.0	31.3 33.7 34.6 35.4 35.3 32.9 22.6 14.3 9.0 11.2 17.7 21.0	5050	10H/02E-31M01 M	77.0	10/25/84 03/14/85	49.2 43.0	27.8 34.0	5104
						10H/02E-33R01 M	52.0	10/24/84 03/14/85	21.6 12.6(6)	30.4 39.4	5104
						10H/02E-34M01 M	54.0	10/25/84 03/14/85	24.2 24.0	25.8 30.0	5104
						10H/03E-14C01 M	25.0	04/08/85	13.7	11.3	5050
09H/02E-20M01 M	61.0	10/24/84 03/20/85	18.4 24.5	42.6 36.3	5104	10H/03E-32E01 M	21.0	04/08/85	5.7	15.3	5050
09H/02E-21L01 M	51.0	10/24/84 03/20/85	18.6 18.8	32.4 32.2	5104	08H/01W-02K01 M	130.0	10/24/84 03/13/85	18.1(8) NM-9	111.9	5104
09H/02E-22H02 M	39.0	10/24/84 03/20/85	12.5 NM-9	26.5	5104	08H/01W-03003 M	163.0	10/16/84 03/15/85	36.4 37.7	126.6 123.3	5001
09H/02E-29003 M	50.0	10/25/84 03/21/85	20.5(8) 15.7(8)	29.5 34.3	5104	08H/01W-09C01 M	163.0	10/24/84 03/13/85	36.4 36.9	124.6 124.1	5104
09H/02E-31001 M	69.0	10/24/84 03/21/85	25.4 22.5	39.6 42.5	5104	08H/01W-10A02 F	135.0	10/16/84 03/15/85	29.1 28.4	106.9 106.6	5001
09H/02E-32M01 M	56.0	10/24/84 03/21/85	12.0 17.2	44.0 38.4	5104	08H/01W-10E01 M	139.0	10/16/84 03/15/85	33.1 36.7	105.9 106.3	5001
09H/02E-35E01 M	34.0	10/24/84 03/20/85	16.7 9.8	17.3 24.2	5104	08H/01W-11F02 M	125.0	10/24/84 03/13/85	26.4(8) NM-8	96.6	5104
09H/03E-07001 M	25.0	10/24/84 03/14/85	11.2 9.0	13.8 16.0	5104	08H/01W-12001 M	122.0	10/24/84 03/13/85	22.6 23.9	99.4 98.1	5104
09H/03E-31A02 M	21.0	10/24/84 03/20/85	21.0 13.0	.0 8.0	5104	09H/01W-13G03 M	113.0	10/24/84 03/13/85	30.6 30.9	82.4 82.5	5104
10H/01E-13L01 M	82.0	10/29/84 03/20/85	56.2 43.0	25.9 39.0	5104	08H/01W-14Q01 M	120.0	10/24/84 03/13/85	36.5(8) 36.3(8)	83.5 83.7	5104
10H/01E-23G01 M	92.0	10/29/84 03/20/85	60.3 NM-9	31.7	5104	08H/01W-16R02 M	128.0	10/16/84 10/24/84 03/13/85 03/15/85	39.0 41.4 37.6 36.8	89.0 96.6 90.4 91.2	5001 5104
10H/01E-23002 M	87.0	10/29/84 03/20/85	54.7(4) 50.9	32.3 36.1	5104	08H/01W-20R05 M	147.0	10/24/84 03/13/85	56.8 50.0	90.2 97.0	5104
10H/01E-24E01 M	83.0	10/29/84 03/20/85	57.6 46.1	25.4 34.9	5104	08H/01W-20R06 M	128.0	10/16/84 03/14/85	NM-9 52.6		5001
10H/01E-26E03 M	97.0	10/29/84 03/20/85	52.0(1) 55.4	45.0 41.6	5104	08H/01W-21N01 M	145.0	10/16/84 03/14/85	56.6 49.2	88.4 95.6	5001
10H/01E-27F01 M	100.0	10/30/84 03/15/85	63.4 56.5	36.4 43.5	5104	09H/01W-24D01 M	133.0	10/22/84 03/04/85	11.9 11.4	121.9 121.5	5104

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS										
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND WATER	WATER SURFACE ELEV.
A A-02 A-02.5	SACRAMENTO HB VALLEY PUTAN-CACHE HU LOWER PUTAN CREEK HA					A A-02 A-02.8	SACRAMENTO HB VALLEY PUTAN-CACHE HU LOWER PUTAN CREEK HA			
09N/01W-02002 M	136.0	10/22/84 03/04/85	17.2 14.0	118.8 122.0	5104	10N/02W-25001 M	231.0	10/22/84 03/04/85	41.0 36.6	191.0 195.4
09N/01W-03601 M	146.0	10/22/84 03/04/85	11.4 9.9	136.6 139.1	5104	10N/02W-26001 M	275.0	10/22/84 03/04/85	45.0 55.5	230.0 219.5
09N/01W-04003 M	181.0	10/22/84 03/04/85	13.6 13.0	167.4 166.0	5104	10N/02W-26001 M	325.0	10/22/84 03/04/85	110.6 119.7	214.4 205.3
09N/01W-05001 M	185.0	10/22/84 03/04/85	13.8 14.0	171.2 171.0	5104	10N/02W-28001 M	365.0	10/22/84 03/04/85	56.1 60.3(4)	308.9 304.7
09N/01W-07801 M	210.0	10/22/84 03/04/85	22.6 24.6	167.4 165.4	5104	10N/02W-36401 M	191.0	10/22/84 03/04/85	4.3 4.7	166.7 166.3
09N/01W-08001 M	190.0	10/22/84 03/04/85	16.5(4) 16.4	173.5 170.6	5104	A-02.C LOWER CACHE CREEK HA				
09N/01W-09001 M	166.0	10/22/84 03/04/85	7.7(8) 1.0	160.3 167.0	5104	10N/01E-07001 M	205.0	10/23/84 03/15/85	45.2 NM-9	159.8 5104
09N/01W-09001 M	182.0	10/22/84 03/04/85	17.4(8) 17.1(8)	164.6 164.9	5104	10N/01E-18001 M	185.0	10/23/84 03/15/85	50.2 49.5	134.8 135.5
09N/01W-12601 M	119.0	10/22/84 03/04/85	6.0 6.5	111.0 112.5	5104	10N/01E-29001 M	110.0	10/28/84 03/04/85	31.8 31.5	78.2 78.5
09N/01W-16001 M	180.0	10/24/84 03/05/85	5.1 6.2	174.9 173.8	5104	10N/01W-02001 M	173.0	10/23/84 03/15/85	22.7 22.1	130.3 130.9
09N/01W-21001 M	170.0	10/24/84 03/05/85	6.1(4) 4.8	163.9 165.2	5104	10N/01W-02001 M	193.0	10/23/84 03/15/85	52.4 46.5	140.6 144.5
09N/01W-23001 M	143.0	10/24/84 03/05/85	10.3 NM-9	132.7 5104		10N/01W-04001 M	178.0	10/23/84 03/15/85	25.4 25.4	132.6 5104
09N/01W-24001 M	125.0	10/24/84 03/05/85	6.2 7.5	116.8 117.5	5104	10N/01W-05001 M	185.0	10/23/84 03/15/85	39.1 39.3	145.9 145.7
09N/01W-33001 M	169.0	10/24/84 03/05/85	17.6 21.9	151.4 147.1	5104	10N/01W-06001 M	189.0	10/23/84 03/15/85	40.2 NM-9	148.8 5104
09N/01W-35001 M	143.0	10/29/84 11/29/84 12/20/84 01/29/85 02/27/85 03/26/85 04/26/85 05/29/85 06/26/85 07/29/85 08/26/85 09/25/85	23.8 23.4 23.5 23.9 24.4 24.3 30.3 27.5 37.0 36.7 26.2 26.0	119.2 119.6 119.5 119.1 118.6 118.7 112.7 115.5 106.0 106.3 116.6 117.0	5050	10N/01W-06001 M	205.0	10/23/84 03/15/85	49.5 55.0	135.5 150.0
09N/01W-36003 M	119.5	10/24/84 03/05/85	13.5 13.7	106.0 105.6	5104	10N/01W-07802 M	180.0	10/23/84 03/15/85	32.4 32.4	147.6 5104
10N/01W-19004 M	186.0	10/26/84 03/04/85	34.9 28.1	133.1 139.9	5104	10N/01W-08801 M	175.0	10/23/84 03/15/85	29.6 29.2	146.2 147.8
10N/01W-20002 M	163.0	10/22/84 03/04/85	29.2 26.9	133.8 136.1	5104	10N/01W-09002 M	171.0	10/23/84 03/15/85	23.2 24.6	147.8 146.2
10N/01W-21001 M	160.0	10/22/84 03/04/85	32.4 29.0	127.6 131.0	5104	10N/01W-15002 M	155.0	10/23/84 03/15/85	16.8 19.7	136.2 135.3
10N/01W-23001 M	141.0	10/22/84 03/04/85	29.7 NM-9	111.3 5104		10N/01W-15002 M	160.0	10/23/84 03/15/85	27.9 27.3	132.1 132.7
10N/01W-26003 M	10/21/84 03/14/85	NM-4 NM-4			5104	10N/01W-16001 M	165.0	10/23/84 03/15/85	29.4(6) 29.9	135.6 135.1
10N/01W-27001 M	193.0	10/26/84 11/29/84 12/20/84 01/29/85 02/27/85 03/26/85 04/26/85 05/29/85 06/26/85 07/29/85 08/26/85 09/25/85	24.3 23.9 23.5 23.2 22.9 23.0 23.6 26.5 29.1 29.2 26.3 25.0	128.5 128.1 129.5 129.6 130.1 129.1 127.4 126.5 123.9 123.5 126.7 128.0	5050	10N/01W-17001 M	170.0	10/23/84 03/15/85	26.2 30.7	141.8 139.3
10N/01W-27001 M	147.0	10/22/84 03/04/85	20.5 NM-4	126.5 5104		10N/01W-18001 M	179.0	10/23/84 03/15/85	30.8 30.8	148.2 5104
10N/01W-29001 M	173.0	10/22/84 03/04/85	9.8 5.6	163.2 167.4	5104	10N/01W-18001 M	189.0	10/23/84 03/15/85	27.7 27.2	160.3 5104
10N/01W-30001 M	161.0	10/22/84 03/04/85	13.2 8.5	167.8 172.5	5104	10N/01W-24002 M	137.0	10/23/84 03/15/85	19.2 10.6	117.8 117.4
10N/01W-32001 M	140.0	10/22/84 03/04/85	15.7 14.3	164.3 165.7	5104	10N/02W-01002 M	225.0	10/23/84 03/15/85	41.0 41.6	144.0 183.2
10N/01W-32001 M	198.0	10/22/84 03/04/85	17.5 17.5	170.5 170.5	5104	10N/02W-07001 M	280.0	10/26/84 03/22/85	13.5 17.9	264.5 262.1
10N/01W-33001 M	165.0	10/26/84 03/04/85	26.9 NM-9	136.1 5104		10N/02W-14001 M	200.0	10/23/84 03/15/85	52.5 53.9	147.5 146.1
10N/01W-35001 M	135.0	10/22/84 03/04/85	17.3 16.2	117.7 116.8	5104	10N/02W-16001 M	229.0	10/26/84 03/22/85	14.5 14.5	214.5 214.5
10N/01W-36002 M	131.0	10/22/84 03/04/85	22.7 25.0	104.3 106.0	5104	10N/02W-17001 M	254.0	10/26/84 03/22/85	10.7 9.5	243.3 244.5
						10N/02W-18001 M	334.0	10/26/84 03/22/85	20.0 16.0	314.0 316.0
						10N/02W-21001 M	239.0	10/26/84 03/22/85	17.7 17.5	221.3 221.5
						10N/03W-13001 M	385.0	10/26/84 03/22/85	29.4 24.5	355.6 360.5
						10N/03W-24001 M	432.0	10/26/84 03/22/85	11.6 NM-9	418.4 5104
						11N/01W-19001 M	229.0	10/30/84 03/15/85	16.0 NM-9	215.0 5104
						11N/01W-28001 M	222.0	10/23/84 03/15/85	15.7 16.5	206.3 203.5
						11N/01W-31001 M	202.0	10/23/84 03/15/85	45.4 50.4	156.2 151.6

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-02 A-02.C	SACRAMENTO HB VALLEY PUTAH-CACHE HU LOWER CACHE CREEK HA					A A-03 A-03.B	SACRAMENTO HB PUTAH CREEK HU UPPER PUTAH CREEK HA				
11N/01W-33M01 M	182.0	10/23/84 03/15/85	NM-3 30.2	131.8	5104	10N/07W-03A02 M	1107.7	10/15/84 04/31/85	NM-9 12.9	1094.8	5050
11N/01W-34P01 M	195.0	10/23/84 03/15/85	17.5 18.5	177.5 176.5	5104	11N/06W-19G01 M	967.8	10/15/84 04/01/85	17.7 14.3	950.1 951.3	5050
11N/02W-23A01 M	292.0	10/23/84 03/15/85	49.7 50.8	242.3 241.2	5104	11N/07W-35E01 M	1077.0	10/15/84 04/01/85	12.7 9.0	1064.3 1068.0	5050
11N/02W-24A01 M	290.0	10/23/84 03/15/85	NM-1 17.6	232.4	5104						
11N/02W-26A01 M	275.0	10/23/84 03/15/85	54.3 51.0	220.7 224.0	5104						
11N/02W-35E01 M		10/23/84 03/15/85	NM-4 NM-4		5104						
11N/03W-03L01 M	345.0	10/26/84 03/22/85	NM-9 9.6	335.4	5104						
11P/03W-09001 M	415.0	10/26/84 03/22/85	20.7 6.1	394.3 408.9	5104						
11N/03W-15G01 M	330.0	10/26/84 03/22/85	17.4 20.9	312.6 309.1	5104						
11N/03W-23L01 M	309.0	10/26/84 03/22/85	14.1 13.7	290.9 291.3	5104						
11N/03W-23M01 M	317.0	10/26/84 03/22/85	21.3 21.0(4)	295.7 296.0	5104						
11N/03W-34C01 M	370.0	10/26/84 03/22/85	27.7 38.9	342.3 334.1	5104						
12N/03W-18G02 M	435.0	10/26/84 03/22/85	34.5 37.0	400.5 398.0	5104						
12N/03W-20001 M	402.0	10/26/84 03/22/85	17.2 19.4	384.8 382.6	5104						
12N/03W-29K01 M		10/26/84 03/22/85	NM-8 NM-8		5104						
12N/03W-32001 M		10/26/84 03/22/85	NM-3 NM-3		5104						
12N/03W-33F01 M	361.0	10/26/84 03/22/85	17.7 16.5	343.3 344.5	5104						

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A-04 A-04.0 A-04.01	SACRAMENTO HR CACHE CREEK HU UPPER CACHE CREEK HA LOWER LAKE HSA					A-04 A-04.0 A-04.04	SACRAMENTO HR CACHE CREEK HU UPPER CACHE CREEK HA LAKEPORT HSA				
12H/07W-13N01 M	1360.0	10/22/84 03/11/85	19.2 13.6	1340.8 1346.4	5050	13H/09W-10E01 M	1355.0	10/15/84 04/04/85	30.4 8.7	1324.6 1346.3	5111
A-04.03	LUCERNE HSA					13H/09W-11A02 M	1350.0	10/22/84 03/11/85	21.7 12.3	1328.3 1337.3	5050
14H/07W-19M01 M	1730.0	10/22/84 03/11/85	13.4 4.9	1714.6 1723.1	5050	13H/09W-11F01 M	1360.0	10/17/84 04/05/85	3.8 8.8	1356.2 1351.2	5111
14H/07W-19M02 M	1730.0	10/22/84 03/11/85	23.7 20.0	1704.3 1710.0	5050	13H/09W-12M02 M	1397.1	10/17/84 04/05/85	21.9 17.6	1335.2 1339.3	5111
14H/08W-23K01 M	1780.0	10/22/84 04/09/85	7.0 1.3	1773.0 1776.7	5111	13H/09W-14E02 M	1340.0	10/22/84 03/11/85	16.6 14.9	1373.4 1375.1	5050
14H/08W-24M02 M	1775.0	10/22/84 04/09/85	68.8 60.2	1706.2 1714.8	5111	13H/09W-14P02 M	1398.8	10/15/84 04/04/85	23.2 13.2	1373.6 1385.6	5111
14H/08W-24M01 M	1740.0	10/22/84 04/09/85	32.2 23.2	1707.8 1716.8	5111	13H/09W-15M02 M	1376.0	10/15/84 04/04/85	NM-2 21.1	1354.9	5111
14H/08W-24L01 M	1750.0	10/22/84 04/09/85	41.6 37.6	1708.4 1712.4	5111	13H/09W-15M01 M	1449.0	10/13/84 04/04/85	17.3 63.2	1427.7 1379.8	5111
A-04.04	LAKEPORT HSA					13H/09W-15J01 M	1420.0	10/15/84 04/04/85	18.3 16.4	1401.7 1403.6	5111
13H/09W-02C02 M	1345.0	10/17/84 04/03/85	24.8 15.2	1320.2 1329.6	5111	13H/09W-13M01 M	1409.0	10/15/84 04/04/85	13.8 11.7	1395.2 1397.3	5111
13H/09W-02E02 M	1341.0	10/22/84 03/11/85	28.6 19.4	1312.4 1325.6	5050	13H/09W-16E02 M	1379.0	10/15/84 04/04/85	21.2 6.3	1337.8 1372.9	5111
13H/09W-02M01 M	1334.6	10/17/84 04/05/85	13.4 3.7	1319.2 1330.9	5111	13H/09W-16L01 M	1380.0	10/15/84 04/04/85	12.6 .6	1367.4 1379.4	5111
13H/09W-02K03 M	1343.0	10/17/84 04/03/85	20.4 7.9	1322.6 1333.1	5111	13H/09W-17C02 M		10/17/84 04/05/85	NM-2 NM-2		5111
13H/09W-03A04 M	1340.0	10/22/84 03/11/85	26.2 16.4	1311.8 1323.6	5050	13H/09W-18J01 M	1400.0	10/15/84 04/03/85	18.2 13.9	1381.8 1386.1	5111
13H/09W-03F06 M	1349.0	10/22/84 03/11/85	29.4 14.2	1319.6 1334.8	5050	13H/09W-18R01 M	1389.0	10/22/84 03/11/85	10.7 .9	1378.3 1388.1	5050
13H/09W-03G01 M	1343.0	10/22/84 03/11/85	30.3 15.7	1312.7 1327.3	5050	13H/09W-19J01 M	1410.0	10/15/84 04/03/85	13.4 NM-7	1396.6	5111
13H/09W-03H04 M	1340.0	10/22/84 03/11/85	27.0 17.3	1313.0 1322.5	5050	13H/09W-20F01 M	1403.3	10/13/84 04/03/85	12.9 6.2	1392.8 1397.1	5111
13H/09W-03J05 M	1340.0	10/22/84 03/11/85	23.8 16.3	1314.2 1323.3	5050	13H/09W-20P01 M	1413.0	10/15/84 03/11/85	13.6 3.1	1399.4 1407.9	5050
13H/09W-03R01 M	1357.2	10/17/84 04/05/85	39.7 16.4	1317.3 1340.8	5111	13H/09W-21F02 M	1300.0	10/22/84 03/11/85	119.3 102.7	1380.5 1397.3	5050
13H/09W-03R02 M	1357.2	10/17/84 04/05/85	43.3 13.9	1313.9 1341.3	5111	13H/09W-21J01 M	1496.0	10/15/84 04/04/85	68.1 70.1	1427.9 1423.9	5111
13H/09W-04G01 M	1345.3	10/17/84 04/05/85	33.6 8.4	1311.7 1338.9	5111	13H/09W-22C02 M	1430.0	10/22/84 03/11/85	27.2 24.6	1402.8 1403.4	5050
13H/09W-04G01 M	1357.0	10/15/84 04/04/85	40.5 9.9	1316.5 1347.1	5111	13H/09W-22F01 M	1444.0	10/13/84 04/04/85	39.8 34.7	1408.2 1409.3	5111
13H/09W-05J05 M	1332.0	10/17/84 04/05/85	27.2 10.9	1324.8 1341.1	5111	13H/09W-22M01 M	1485.0	10/15/84 04/04/85	100.9 40.6	1384.1 1404.4	5111
13H/09W-05R05 M	1359.0	10/22/84 03/11/85	28.1 14.5	1326.9 1340.5	5050	13H/09W-23F01 M	1426.9	10/15/84 04/04/85	42.6 41.4	1384.3 1385.5	5111
13H/09W-06H02 M	1349.0	10/15/84 04/03/85	26.7 11.3	1322.3 1337.7	5111	13H/09W-27M01 M	1304.0	10/15/84 04/04/85	13.8 13.9	1490.2 1490.1	5111
13H/09W-06H03 M	1349.3	10/15/84 04/03/85	26.2 11.4	1323.1 1337.9	5111	13H/09W-27M01 M	1435.0	10/13/84 04/04/85	16.1 13.9	1414.9 1419.1	5111
13H/09W-06M01 M	1374.3	10/15/84 04/03/85	16.6 3.7	1357.7 1368.6	5111	13H/09W-28J02 M	1600.0	10/17/84 04/03/85	71.2 72.4	1328.8 1327.6	5111
13H/09W-07A03 M	1360.0	10/13/84 04/03/85	15.9 4.2	1344.1 1355.6	5111	13H/09W-28K01 M	1380.0	10/17/84 04/05/85	NM-3 18.1	1363.9	5111
13H/09W-07E01 M	1392.3	10/15/84 04/03/85	13.6 -2.0	1378.7 1393.1	5111	13H/09W-28M03 M	1500.0	10/17/84 04/05/85	110.4 110.3	1479.6 1479.5	5111
13H/09W-08C02 M	1372.6	10/17/84 04/03/85	23.3 12.6	1347.3 1360.0	5111	13H/09W-29R01 M	1350.0	10/17/84 04/05/85	42.5 90.6	1467.5 1459.4	5111
13H/09W-08M03 M	1368.0	10/22/84 03/11/85	8.4 -4.9	1359.6 1368.9	5050	13H/09W-30A01 M	1419.8	10/15/84 04/03/85	13.0 4.7	1404.8 1413.1	5111
13H/09W-09C04 M	1350.0	10/15/84 04/04/85	22.2 8.3	1327.8 1341.7	5111	14H/09W-31E01 M	1330.4	10/15/84 04/03/85	7.0 .6	1323.4 1329.5	5111
13H/09W-09O01 M	1360.4	10/15/84 04/04/85	23.3 8.1	1337.1 1352.3	5111	14H/09W-31M01 M	1334.7	10/15/84 04/03/85	9.4 -2.3	1325.3 1335.0	5111
13H/09W-09O05 M	1356.0	10/15/84 04/04/85	23.0 8.4	1333.0 1340.6	5111	14H/09W-32C02 M	1334.5	10/17/84 04/05/85	14.2 7.6	1320.3 1326.9	5111
13H/09W-09F02 M	1355.0	10/18/84 03/11/85	28.5 10.9	1326.5 1344.1	5050	14H/09W-32M01 M	1335.2	10/17/84 04/05/85	12.6 NM-9	1322.6	5111
13H/09W-09L01 M	1360.0	10/15/84 04/04/85	21.6 2.8	1338.4 1357.2	5111	14H/09W-33M01 M	1336.5	10/17/84 04/05/85	18.1 8.1	1320.4 1328.4	5111
13H/09W-09O02 M	1368.0	10/22/84 03/11/85	22.6 8.3	1345.4 1359.5	5050	14H/09W-33L03 M	1330.0	10/17/84	14.6	1313.4	5111

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS										
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	* WATER SURFACE ELEV.
SACRAMENTO MB CACHA CREEK MU UPPER CACHA CREEK MA LAKEPORT MSA						SACRAMENTO MB VALLEY-AMERICAN MA MORRISON CREEK MU FRANKLIN MSA				
A A-04 A-04.0 A-04.04						A A-05 A-05.4 A-05.41				
14N/09W-33L03 M	1330.0	04/05/85	3.6	1326.4	5111	05N/05E-04C01 M	13.0	10/29/84 11/27/84	77.5 53.6	-44.5 -40.6
14N/09W-33M02 M	1337.7	10/37/84 04/05/85	36.3 5.4	1321.4 1332.3	5111			12/38/84 03/24/85	52.3 50.6	-39.1 -37.6
14N/09W-33O03 M	1339.0	10/22/84 03/11/85	17.3 4.1	1321.7 1334.9	5050			02/26/85 03/25/85	49.1 48.2	-36.1 -35.2
14N/09W-34L03 M	1336.6	10/17/84 04/05/85	11.3 5.1	1325.3 1331.5	5111			04/25/85 05/24/85	51.6 52.4	-38.6 -39.8
14N/10W-03H01 M		10/12/84 04/02/85	MM-0 -3.3		5111			06/27/85 07/25/85	57.7 MM-1	-44.7 -45.2
14N/10W-03M02 M	1402.0	10/12/84 04/02/85	MM-0 -3.3	1403.3	5111			08/23/85 09/23/85	58.2 56.8	-43.6 -43.6
14N/10W-03P02 M	1405.0	10/12/84 04/02/85	10.5 3.6	1394.5 1403.4	5111	05N/05E-10C03 M	20.8	03/15/85	43.7	-22.9
14N/10W-03P02 M	1410.0	10/22/84 03/11/85	1.2 -4.5	1408.8 1414.5	5050	05N/05E-10O01 M	15.0	10/15/84 03/15/85	33.1 28.5	-18.3 -13.5
14N/10W-10O01 M	1430.7	10/12/84 04/02/85	19.3 7.2	1411.4 1423.5	5111	06N/05E-01C01 M	39.3	10/29/84 11/27/84	111.4 130.5	-72.5 -71.2
14N/10W-11O05 M	1412.0	10/22/84 03/11/85	9.2 -13.8	1402.8 1425.8	5050			12/18/84 01/25/85	109.6 108.3	-70.3 -69.0
14N/10W-11O01 M	1420.3	10/12/84 04/02/85	7.5 1.2	1412.8 1419.1	5111			02/22/85 03/22/85	107.5 106.9	-68.2 -67.6
14N/10W-14E02 M	1441.6	10/12/84 04/02/85	42.9 10.7	1398.7 1406.9	5111			04/29/85 05/28/85	106.8 108.8	-67.5 -69.5
14N/10W-14F01 M	1440.0	10/12/84 04/02/85	39.4 8.3	1400.6 1431.7	5111	06N/05E-01D01 M	40.6	10/24/84 03/24/85	109.7 101.3	-68.1 -60.7
14N/10W-15H01 M	1445.0	10/22/84 03/11/85	40.8(8) 12.7(8)	1404.2 1432.3	5050			09/18/85	109.4	-68.8
14N/10W-22A01 M	1463.8	10/12/84 04/02/85	MM-0 23.7	1440.1	5111	06N/05E-04A02 M	20.5	10/10/84 03/05/85	59.1(1) 73.6(1)	-68.6 -53.1
14N/10W-23O01 M	1342.2	10/15/84 04/03/85	3.4 1.9	1338.8 1340.5	5111	06N/05E-10B01 M	14.5	10/10/84 03/25/85	102.9	-80.1
A-04.05 UPPER LAKE MSA						06N/05E-10G01 M	36.0	10/15/84 03/15/85	115.6 102.7	-79.6 -66.7
15N/09W-05L01 M	1385.6	10/12/84 04/02/85	12.5 3.5	1373.1 1382.1	5111	06N/05E-14J01 M	32.5	10/10/84 03/25/85	105.9 94.0	-73.4 -61.5
15N/09W-06B01 M		10/22/84 03/13/85	MM-0 MM-0		5050	06N/05E-16A01 M	22.0	10/10/84 03/25/85	99.0 88.1	-77.0 -66.1
15N/09W-08E02 M	1365.6	10/12/84 04/02/85	24.5 11.5	1341.1 1354.1	5111	06N/05E-20R01 M	19.0	10/10/84 03/24/85	MM-1 84.6	
15N/09W-08A01 M	1364.1	10/12/84 04/02/85	24.0 9.5	1340.1 1354.6	5111	06N/05E-22C02 M	23.0	10/10/84 03/25/85	99.6 94.1	-75.6 -65.1
15N/09W-08R01 M	1361.5	10/12/84 04/02/85	23.6 9.5	1337.9 1352.0	5111	06N/05E-24R01 M	38.0	10/10/84 03/24/85	80.1 70.6	-42.1 -32.6
15N/09W-07G01 M	1346.4	10/22/84 03/11/85	12.7 2.8	1333.7 1343.6	5050	06N/05E-26F01 M	17.5	10/10/84 03/24/85	82.3 69.4	-64.8 -51.9
15N/09W-09L01 M	1430.4	10/12/84 04/02/85	28.8 3.6	1401.6 1426.8	5111	06N/05E-34C02 M	23.0	10/10/84 03/04/85	88.0 77.4	-63.0 -54.4
15N/09W-10H03 M	1333.0	10/12/84 04/02/85	9.1 1.8	1321.9 1329.2	5111	06N/06E-05J02 M	55.0	10/10/84 03/25/85	86.2 80.4	-33.2 -25.4
15N/10W-01R01 M	1356.1	10/12/84 04/02/85	20.4 8.2	1335.7 1344.9	5111	06N/06E-07A02 M	47.0	10/15/84 03/20/85	92.2 86.5	-45.2 -49.5
15N/10W-03D01 M	1362.0	10/12/84 04/02/85	10.4 3.5	1351.6 1358.5	5111	06N/05E-07M01 M	42.0	10/10/84 03/05/85	105.4 96.3	-63.4 -54.1
15N/10W-03N01 M		10/12/84 04/02/85	MM-0 MM-0		5111	06N/06E-18F01 M	43.5	10/10/84 03/25/85	91.1 84.5	-47.8 -41.0
15N/10W-04B01 M	1373.5	10/12/84 03/11/85	14.0 2.4	1359.5 1373.1	5111	06N/06E-18G01 M	44.9	10/14/84 03/21/85	88.6 79.1	-43.7 -34.2
15N/10W-04R03 M	1382.0	10/22/84 03/11/85	13.2 3.1	1368.8 1378.9	5050			09/15/85	92.2	-47.3
16N/09W-31C03 M	1408.2	10/12/84 04/02/85	36.9 23.2	1371.3 1385.0	5111	07N/05E-15H01 M	28.0	10/15/84 03/20/85	83.1 79.5	-55.1 -51.5
16N/09W-31O01 M	1387.5	10/12/84 04/02/85	22.7 3.8	1364.8 1383.7	5111	07N/05E-20E01 M		10/12/84	MM-4	
16N/10W-34N01 M	1394.3	10/12/84 04/02/85	20.6 3.6	1373.5 1390.5	5111	07N/05E-24H01 M	30.0	10/15/84 03/15/85	106.8 102.6	-67.8 -63.6
						07N/05E-26C01 M	29.6	10/24/84 03/01/85	86.5 81.3	-58.2 -52.7
								09/18/85	88.1	-59.5
						07N/05E-26P02 M	30.0	10/15/84 03/20/85	MM-7 94.3	
						07N/05E-28E01 M	22.5	10/12/84 03/18/85	71.9 66.5	-49.4 -44.0
						07N/05E-29P01 M	24.0	10/15/84 03/15/85	80.3 74.6	-56.3 -50.6
						07N/05E-29O01 M	17.0	10/12/84 03/18/85	57.8 48.4	-40.8 -31.4
						07N/05E-32O01 M	17.0	10/15/84 03/15/85	52.0 49.7	-35.0 -32.7
						07N/05E-32C01 M	19.5	10/25/84	53.7	-44.2

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A-05.4 A-05.41 SACRAMENTO NR VALLEY-AMERICAN HA HARRISON CREEK HA FRANKLIN HSA						A-05.42 A-05.42 SACRAMENTO NR VALLEY-AMERICAN HA HARRISON CREEK HA FLORIN HSA					
07N/05E-32K01 M	19.5	03/15/85	62.1	-42.6	9050	08N/05E-21M02 M	39.5	10/15/84 03/20/85	92.3 55.6	-12.8 -16.1	5108
07N/05E-34L01 M	29.0	10/13/84 03/18/85	NM-3 101.1	-72.1	5108	09N/05E-30A01 M	27.3	10/04/84 03/01/85 04/18/85	46.6 45.4 46.0	-19.3 -18.1 -20.7	3050
07N/05E-36A01 M		10/15/84 03/20/85	NM-7 NM-7		5108	08N/05E-32P01 M	21.7	10/04/84 03/01/85 04/18/85	60.1 52.0 61.7	-38.4 -30.3 -40.0	3050
07N/06E-10M02 M	85.0	10/15/84 03/15/85	126.3 117.1	-41.3 -32.1	4202	08N/05E-33J01 M	26.0	03/08/85 04/20/85	63.9 60.4	-37.9 -43.4	5050
07N/06E-12A01 M	115.0	10/16/84 03/21/85	119.5 117.5	-4.5 -2.5	5108	08N/06E-09Q04 M	74.0	10/19/84 03/07/85	65.8 65.2	8.2 8.8	5050
07N/06E-14Q01 M	90.0	10/16/84 03/21/85	103.4 96.0	-13.4 -6.0	5108	08N/06E-17M01 M	71.9	10/12/84	90.4	-18.5	5108
07N/06E-15N01 M		10/13/84 03/21/85	NM-3 NM-3		5108	08N/06E-20R01 M	37.4	10/18/84 03/28/85	80.9 73.3	-23.5 -15.9	5108
07N/06E-20J01 M	57.0	10/15/84 03/21/85	101.5 93.0	-44.5 -38.0	5108	08N/06E-21C01 M	71.0	10/19/84 03/07/85	78.7 76.0	-7.7 -5.0	5050
07N/06E-22C02 M	60.0	10/15/84 03/13/85	94.7 87.5	-34.7 -27.5		08N/06E-21M02 M	65.0	10/13/84 03/07/85 03/15/85	82.3 76.5 76.1	-17.3 -11.5 -11.1	4202
07N/06E-22Q02 M	70.0	10/16/84 03/21/85	94.8 85.5	-24.8 -15.5	5108	08N/06E-25J02 M	141.0	10/12/84 03/08/85	134.5 131.3	6.5 9.7	5050
07N/06E-28N01 M	39.0	10/15/84 03/15/85	101.2 94.6	-42.2 -35.6	4202	08N/06E-26K01 M	123.0	10/18/84 03/28/85	133.7 136.1	-10.7 -13.1	5108
07N/06E-32P01 M	50.5	10/15/84 03/20/85	108.0 95.0	-57.5 -44.5	5108	08N/06E-27H02 M	93.7	10/18/84	105.0	-11.3	5108
07N/06E-33J01 M	63.0	03/22/85	74.6	-11.6	5050	08N/06E-27M01 M	79.0	10/18/84 03/28/85	101.0 94.3	-22.0 -15.3	5108
09N/06E-34Q01 M	96.3	10/12/84 03/07/85	70.9 68.9	25.4 27.4	5050	08N/06E-30C01 M	50.0	10/15/84 03/21/85	73.1 75.0	-23.1 -25.0	5108
A-05.42 A-05.42 FLORIN HSA						08N/06E-31F01 M	31.0	10/15/84 03/21/85	91.0 84.0	-40.0 -33.0	5108
07N/05E-01M02 M	45.0	10/05/84 03/01/85 04/20/85	94.8 91.5 93.9	-49.8 -48.5 -48.9	5050	08N/06E-33M01 M	64.7	10/15/84 03/21/85	100.7 88.5	-36.0 -23.8	5108
07N/05E-01J01 M	44.0	10/15/84 03/13/85	97.0 94.6	-33.0 -30.6	4202	08N/06E-34R01 M	106.4	10/16/84 03/21/85	125.8 124.8	-19.4 -18.4	5108
07N/05E-04Q01 M	21.4	10/04/84 03/01/85 04/16/85	58.8 36.9 62.5	-37.4 -35.5 -41.1	5050	08N/07E-02N01 M	257.6	10/16/84 03/29/85	144.8 137.0	112.8 120.6	5108
07N/05E-10M01 M	26.5	10/04/84 03/01/85 04/18/85	69.3 67.7 70.2	-42.8 -41.2 -43.7	5050	08N/07E-07K01 M	141.0	10/12/84 03/07/85	96.1 94.8	42.9 46.2	5050
07N/05E-18C01 M	12.0	10/12/84 03/21/85	24.2 NM-7	-12.2	5108	08N/07E-08R01 M	190.0	10/12/84 03/07/85	125.5 121.8	54.5 58.2	5050
07N/06E-01A01 M	115.0	10/14/84 03/15/85	121.6 107.7	-6.6 7.3	4202	08N/07E-14C01 M	254.2	10/16/84 03/28/85	140.6 130.0	113.6 124.2	5108
07N/06E-08M01 M	56.5	10/15/84 03/21/85	101.1 93.0	-42.6 -36.5	5108	08N/07E-18E02 M	125.0	10/12/84 03/08/85	107.7 106.5	17.3 18.5	5050
08N/04E-02K07 M	21.0	03/03/85 04/27/85	24.8 23.1	-3.8 -2.1	5050	08N/07E-20J01 M	164.0	10/12/84 03/07/85	120.3 116.9	43.7 47.1	5050
08N/04E-01P01 M	17.0	10/12/84 03/14/85	16.6 12.6	4.4	5108	08N/07E-22G01 M	220.0	10/12/84 03/08/85	160.0 137.9	60.0 82.1	5050
08N/04E-12Q01 M	15.0	10/03/84 03/05/85 04/27/85	24.2 24.1 24.6	-9.2 -9.1 -9.6	5050	08N/07E-27C01 M	210.0	10/12/84 03/08/85	137.5 136.4	52.5 53.6	5050
08N/04E-24M01 M	25.0	10/05/84 03/05/85 04/20/85	30.5 28.7 30.5	-5.5 -3.7 -5.5	5050	08N/07E-31J01 M	115.4	10/18/84 03/28/85	99.0 81.2	16.4 34.2	5108
08N/04E-36L01 M	5.0	10/12/84 03/14/85	19.8 18.6	-14.8 -13.6	5108	08N/07E-33E01 M	145.3	10/16/84 03/28/85	80.9 74.8	64.4 70.5	5108
08N/05E-06M01 M	22.2	10/19/84 03/20/85	21.9 20.0	3.3 2.2	5050	09N/07E-31G01 M	133.3	10/18/84 03/07/85	69.9 67.5	63.4 65.8	5050
A-05.8 A-05.81 COON-AMERICAN HA LOWER AMERICAN HSA						09N/05E-08J02 M	39.0	10/05/84 03/05/85	49.2 48.9	-16.2 -15.9	5050
09N/05E-07P01 M		10/30/84 11/27/84 12/16/84 01/28/85 02/22/85 03/22/85 04/22/85 05/30/85 06/24/85 07/26/85 08/22/85 09/27/85 09/30/85	23.5 23.4 23.2 23.4 23.5 23.4 23.6 23.7 24.0 24.4 24.6 24.7 23.6	-1.3 -1.2 -1.0 -1.2 -1.3 -1.2 -1.4 -1.5 -1.6 -2.2 -2.4 -2.5 -1.4		09N/05E-12J01 M	80.0	10/03/84 03/01/85	113.0 99.4	-33.0 -19.4	
08N/05E-15E01 M	37.0	10/19/84 03/08/85	44.3 43.5	-7.3 -6.5	5050	09N/05E-12L01 M	75.0	10/03/84 03/20/85	111.4 99.0	-36.4 -24.0	5050
08N/05E-18K01 M	19.9	10/04/84 03/05/85 04/18/85	22.6 23.6 24.1	-2.7 -3.7 -4.2	5050	09N/05E-14M03 M	64.0	10/03/84 03/01/85	97.9 80.2	-33.9 -25.2	5050
08N/05E-18Q01 M	24.7	10/04/84 03/01/85 04/18/85	26.0 26.0 26.8	-1.3 -1.3 -2.1	5050	09N/05E-14L01 M	60.0	10/22/84 03/01/85	94.3 90.4	-34.3 -30.4	5050
						09N/05E-16K01 M	41.0	10/05/84 03/05/85	76.2 69.4	-35.2 -26.4	5050
						09N/05E-18P01 M	31.0	10/23/84 04/01/85	43.9 36.8	-12.9 -5.8	5108

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-05 A-05.01	SACRAMENTO HB VALLEY-AMERICAN HU COON-AMERICAN HA LOWER AMERICAN HSA					A A-05 A-05.01	SACRAMENTO HB VALLEY-AMERICAN HU COON-AMERICAN HA LOWER AMERICAN HSA				
09N/05E-21M01 M	34.0	10/05/84 02/26/85 03/05/85 03/29/85 04/29/85 05/30/85 06/27/85 07/26/85 08/26/85 09/04/85 09/24/85	54.2 80.7 80.7 79.6 85.2 88.3 93.3 95.5 NM-1 95.2 92.8	-20.2 -46.7 -18.6 -14.6 -51.2 -54.3 -59.3 -61.5 -81.2 -58.8	5050	10N/06E-05M01 M	141.0	07/30/55 08/27/85 09/28/85	141.3 141.8 141.6	-3 -8 -A	5050
09N/05E-25J01 M		04/29/85 05/30/85 06/27/85 07/26/85 08/26/85 09/04/85 09/24/85	85.2 88.3 93.3 95.5 NM-1 95.2 92.8	-51.2 -54.3 -59.3 -61.5 -81.2 -58.8		10N/06E-10C01 M	145.4	10/24/84 04/01/85	135.7 136.2	7.7 10.2	5050
						10N/06E-13C01 M	188.7	10/22/84 03/28/85	173.6 169.8	15.1 18.9	5050
						10N/06E-19K02 M	150.0	10/09/84 02/28/85	179.9 172.0	-29.9 -22.0	5050
	65.0	10/30/84 11/28/84 12/16/84 01/25/85	87.8 NM-9 84.1 82.3	-22.8 -19.1 -17.3	5050	10N/06E-21F02 M		10/25/84	NM-7		5108
09N/05E-27001 M	44.0	03/05/85	64.7	-20.7	5050	10N/07E-18B01 M	152.0	10/22/84 03/28/85	121.8 120.3	30.2 31.7	5050
09N/05E-28M01 M	37.6	10/05/84 03/01/85	63.4 56.9	-25.8 -21.3	5050	10N/07E-20001 M	210.0	10/23/84 04/31/85	NM-3 123.4	86.6	5108
09N/05E-28K01 M	32.9	10/05/84 03/01/85	55.2 51.5	-22.3 -18.6	5050	10N/07E-29G01 M		10/22/84 04/01/85	NM-0 NM-9		5108
09N/05E-28N01 M	40.0	10/05/84 03/01/85	47.3 46.1	-7.3 -6.1	5050	10N/07E-32M01 M	215.0	10/22/84 04/01/85	164.4 164.1	50.6 50.9	5108
09N/06E-02P01 M	160.0	10/22/84 04/01/85	136.4 146.8	1.6 13.2	5108	11N/04E-24R01 M	47.0	11/06/84 03/14/85	42.2 78.3	-35.2 -31.3	5415
09N/06E-12001 M	205.5	10/22/84 04/01/85	32.6 32.5	172.9 173.0	5108	11N/05E-32R01 M	70.0	10/30/84 11/27/84 12/18/84 01/26/85 02/28/85 03/28/85 04/28/85 05/28/85 06/27/85 07/30/85 08/27/85 09/28/85	104.0 102.3 101.4 99.7 98.9 97.8 100.0 105.0 111.0 113.4 113.4 107.5	-34.0 -32.3 -31.4 -29.7 -28.9 -27.8 -30.0 -35.0 -41.0 -43.4 -43.8 -37.5	5050
09N/06E-26C01 M	96.3	10/22/84 03/28/85	66.0 56.8	30.3 39.5	5108						
09N/06E-27001 M	71.0	10/22/84	50.0	21.0	5108						
09N/06E-33R01 M	73.2	10/22/84 03/28/85	50.9 46.8	22.3 26.4	5108						
09N/06E-36C01 M	110.0	10/19/84 03/07/85	53.4 52.7	56.6 57.3	5050	A-05.02 PLEASANT GROVE HSA					
09N/06E-36M01 M	116.0	10/19/84 03/07/85	85.4 81.7	32.6 36.3	5050	09N/03E-02D01 M	23.0	10/24/84 04/32/85	15.6 14.3	7.4 8.7	5108
09N/07E-07F01 M	204.2	10/22/84 04/01/85	164.6 159.2	39.6 45.0	5108	09N/04E-01R01 M	19.5	10/23/84 04/01/85	24.3 22.3	-4.8 -2.8	5108
09N/07E-09A01 M	192.0	10/22/84 04/01/85	79.0 73.0	113.0 119.0	5108	09N/04E-08L01 M	24.0	10/23/84 04/02/85	21.7 NM-7	2.3	5108
09N/07E-27001 M	224.1	10/18/84 03/28/85	27.0 30.5	197.1 193.6	5108	09N/04E-10C01 M	17.0	10/05/84 03/05/85	9.8 10.0	7.2 7.0	5050
10N/04E-12A01 M	43.1	11/13/84 04/09/85	66.4 57.8	-23.3 -14.7	6244	09N/04E-22E01 M	12.0	10/35/84 03/05/85	7.7(4) 6.1(4)	4.3 5.9	5050
10N/05E-04A01 M	72.2	10/24/84 04/01/85	104.8 99.3	-32.6 -27.1	5050	09N/04E-27F01 M	24.0	10/23/84 04/31/85	24.9 20.3	.1 3.7	5108
10N/05E-09E01 M	55.0	10/25/84 04/01/85	88.2 83.9	-33.2 -28.9	5050	10N/03E-35A01 M	18.9	10/24/84 04/02/85	9.0 8.1	9.9 10.8	5108
10N/05E-08L02 M	51.5	10/30/84 04/01/85	81.7 NM-9	-30.2	5050	10N/04E-02K01 M	25.0	11/14/84 04/09/85	NM-9 31.9	-6.9	6244
10N/05E-12001 M	105.0	10/24/84 04/01/85	109.3 108.7	-4.3 -3.7	5050	10N/04E-21R02 M	16.0	10/24/84 04/32/85	7.3 5.5	8.7 10.5	5108
10N/05E-22G01 M	69.0	10/29/84 11/29/84 12/26/84 01/28/85 02/26/85 03/27/85 04/29/85 05/28/85 06/25/85 07/26/85 08/27/85 09/26/85	94.0 91.9 91.0 90.1 89.8 88.8 90.9 97.1 99.4 101.6 102.4 99.0	-25.0 -22.9 -22.0 -21.1 -20.8 -19.8 -21.9 -28.1 -30.4 -32.6 -33.4 -30.0	5050	10N/04E-23A01 M	15.0	10/24/84 04/32/85	11.6 9.5	3.4 5.5	5108
10N/05E-26R02 M	81.0	10/25/84 04/04/85	101.9 NM-7	-20.9	5108	10N/04E-24B01 M	22.0	10/24/84 04/32/85	24.6 21.2	-2.6 .6	5108
10N/05E-30L01 M	36.0	10/24/84 04/02/85	58.2 41.2	-22.2 -5.2	5108	10N/04E-36B01 M	37.0	10/35/84 03/05/85	36.4 39.3	.6 1.7	5050
10N/05E-32002 M	39.0	10/05/84 03/05/85	51.7 49.4	-12.7 -10.4	5050	11N/03E-01001 M	25.6	11/14/84 04/35/85	12.5 7.2	13.3 16.4	6244
10N/05E-34M01 M	47.0	10/24/84 04/02/85	NM-7 77.5	-30.5	5108	11N/03E-03C02 M	26.4	11/14/84 04/08/85	9.9 10.0	16.5 16.4	6244
10N/06E-03M01 M	136.0	10/24/84 04/01/85	132.9 129.9	3.1 6.1	5050	11N/03E-15C01 M	26.7	11/14/84 04/08/85	11.3 15.3	17.4 13.4	6244
10N/06E-05M01 M	141.0	10/30/84 11/27/84 12/18/84 01/28/85 02/28/85 03/29/85 04/29/85 05/28/85 06/27/85	140.5 138.9 134.1 136.7 136.7 136.5 136.5 136.6 138.3 139.9	.5 2.1 2.9 4.3 4.2 4.5 4.4 2.7 1.1	5050	11N/04E-01M03 M	44.3	11/15/84 04/09/85	37.3 31.1	9.0 15.2	6244
						11N/04E-03P02 M	35.0	11/15/84 04/30/85	21.5 22.5	13.5 12.5	6244

TABLE (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A 4-05 4-05.8 4-05.82	SACRAMENTO HA VALLEY-AMERICAN HU COON-AMERICAN HA PLEASANT GROVE HSA					A 4-05 4-05.8 4-05.82	SACRAMENTO HA VALLEY-AMERICAN HU COON-AMERICAN HA PLEASANT GROVE HSA				
11N/04E-09002 M	28.0	10/25/84 03/27/85	15.9 14.0(1)	12.1 14.0	5050	12N/04E-16A04 M	40.0	11/25/84 03/14/85	11.3 7.3	28.7 32.7	5415
11N/04E-13001 M	47.4	11/15/84 04/09/85	49.4 52.3	-2.0 -4.9	6244	12N/04E-18001 M	31.4	11/14/84 04/08/85	12.0 10.6	19.4 20.8	6244
11N/04E-13801 M	50.0	11/06/84 03/14/85	81.3 68.3	-31.3 -18.3	5415	12N/04E-20C01 M	32.0	11/06/84 03/14/85	11.7 5.2	20.3 26.8	5415
11N/04E-15C01 M	30.9	11/15/84 04/09/85	22.5 23.8	8.4 7.3	6244	12N/04E-20P01 M	24.0	11/06/84 03/14/85	11.3 5.0	17.7 24.0	5415
11N/04E-15D01 M	33.1	11/06/84 03/14/85	33.2 28.7	-1 4.4	5415	12N/04E-24M02 M	52.0	11/05/84 03/14/85	14.1 16.1	32.9 35.9	5415
11N/04E-19E02 M	29.0	11/14/84 04/08/85	10.5 11.0	18.5 18.0	6244	12N/04E-34H01 M	38.0	11/05/84 03/14/85	12.8 6.2	25.2 31.8	5415
11N/04E-34H01 M	25.0	10/24/84 03/27/85	19.7 19.9	5.3 5.1	5050	12N/04E-35H02 M	45.0	11/15/84 04/09/85	34.2 24.2	11.8 21.8	6244
11N/05E-06H01 M	54.0	10/24/84 04/02/85	56.3 51.1	2.7 7.9	5050	12N/05E-01D02 M	97.8	10/25/84 04/03/85	32.6 27.0	65.2 70.8	5050
11N/05E-07H01 M	63.0	10/24/84 04/02/85	78.2 67.8	-15.2 -4.8	5050	12N/05E-01R01 M	112.5	10/25/84 03/29/85	46.7 38.4	65.8 74.1	5050
11N/05E-15G01 M	74.7	10/30/84 04/02/85	HN-9 80.6	-5.9	5050	12N/05E-04F01 M	77.0	10/25/84 04/03/85	30.4 26.5	46.6 50.5	5050
11N/05E-16H01 M	88.0	10/30/84 04/02/85	114.3 97.6	-26.3 -9.6	5050	12N/05E-06J03 M	62.0	10/25/84 04/03/85	15.2 14.4	46.8 47.6	5050
11N/05E-17A04 M	72.0	10/25/84 04/02/85	93.4 81.3	-21.4 -9.3	5050	12N/05E-06R01 M	69.0	10/25/84 04/03/85	27.3 25.4	41.7 43.6	5050
11N/05E-18R01 M	61.0	11/06/84 03/14/85	83.8 75.0	-22.8 -14.0	5415	12N/05E-07H01 M	68.5	10/25/84 04/03/85	28.8 27.1	39.7 41.4	5050
11N/05E-20C01 M	63.0	10/24/84 04/02/85	99.4 85.7	-36.4 -22.7	5050	12N/05E-12Q01 M	106.0	10/30/84 11/27/84	49.8 48.0	56.2 58.0	5050
11N/05E-23R01 M	86.0	10/24/84 04/02/85	99.0 91.3	-13.0 -8.3	5050			12/18/84 01/28/85	46.9 44.9	59.1 61.1	
11N/05E-28C01 M	70.0	10/24/84 04/02/85	98.8 89.0	-28.8 -19.0	5050			02/28/85 03/28/85	43.5 42.2	62.5 63.8	
11N/05E-29G02 M	64.0	10/24/84 04/02/85	95.4 86.7	-31.4 -22.7	5050			04/29/85 05/28/85	61.3 52.6	44.7 53.4	
								06/27/85 07/30/85	72.5 76.1	33.5 29.9	
11N/06E-06A01 M	125.0	10/22/84 03/28/85	101.9 97.8	23.1 27.2	5050	12N/05E-34R01 M	103.4	10/25/84 04/02/85	64.9 55.4	38.5 48.0	5050
11N/06E-15C04 M	116.0	10/22/84 04/02/85	77.9 73.4	38.1 42.6	5050	12N/05E-17A02 M	75.0	10/30/84 11/27/84	49.0 48.4	26.0 26.6	5050
11N/06E-16M02 M	112.0	10/22/84 03/28/85	76.1 71.6	35.9 40.4	5050			12/18/84 01/28/85	48.1 46.7	26.9 28.3	
11N/06E-18P05 M	85.0	10/22/84 04/02/85	41.5 38.9	43.5 46.1	5050			02/28/85 03/24/85	45.8 45.2	29.2 29.8	
11N/06E-30F02 M	105.0	10/22/84 04/02/85	116.2(4) 112.7	-11.2 -7.7	5050			04/29/85 05/28/85	45.1 46.6	29.9 26.4	
11N/06E-32F03 M	125.8	10/25/84 04/01/85	126.4 123.5	-6 2.3	5050			06/27/85 07/30/85	52.0 52.6	23.0 22.4	
11N/06E-34H01 M	161.0	10/30/84 03/28/85	114.0 113.4	47.0 47.6	5050	12N/05E-18R01 M	66.0	10/25/84 04/02/85	53.7 49.8	21.3 25.2	
12N/03E-23H01 M	30.0	11/14/84 04/08/85	11.5 13.2	18.5 16.8	6244	12N/05E-26D01 M	90.0	10/25/84 04/02/85	70.5 63.7	19.5 26.3	5050
12N/03E-24A01 M	24.5	11/14/84 04/08/85	9.0 7.1	15.5 17.4	6244	12N/05E-26H02 M	91.0	10/25/84 04/02/85	66.1 59.5	24.9 31.5	5050
12N/03E-24D01 M	30.0	04/08/85	6.7	23.3	6244	12N/05E-28C01 M	77.0	10/25/84 04/02/85	67.3 58.9	9.7 18.1	5050
12N/03E-26R01 M	11/14/84 04/08/85	HN-4 HN-4			6244	12N/05E-29D01 M	64.0	10/25/84 04/02/85	42.9 38.3	21.1 25.7	5050
12N/04E-02A01 M	56.0	11/06/84 03/14/85	6.9 1.1	49.1 54.9	5415	12N/05E-31A01 M	59.0	11/06/84 03/14/85	47.5 42.3	11.5 16.7	5415
12N/04E-02P01 M	50.0	11/14/84 04/08/85	8.8 8.6	41.2 41.4	6244	12N/05E-33C01 M	67.0	10/25/84 04/02/85	60.5 59.9	-2.3 7.1	5050
12N/04E-05R04 M	41.0	10/30/84 11/06/84	16.4 16.3	24.6 24.7	5050	12N/05E-35E02 M	90.2	10/25/84 04/02/85	99.2 80.7	1.0 9.5	5050
		11/28/84 12/21/84	15.4 14.2	25.6 26.8	5050	12N/06E-06A01 M	123.5	10/25/84 04/03/85	39.3 34.9	84.2 88.6	5050
		01/29/85 02/27/85	13.8 13.2	27.2 27.5		12N/06E-16D01 M	132.9	10/25/84 04/02/85	56.7 55.3	76.2 77.6	5050
		03/14/85 03/27/85	12.8 12.6	28.2 28.4	5415			05/28/85 06/27/85	55.3 55.3	73.4 73.4	5050
		04/26/85 05/26/85	14.7(1) 18.0(1)	26.3 22.1		12N/06E-20P03 M	129.0	10/25/84 04/02/85	75.6 76.2	53.6 52.8	5050
		06/27/84 07/29/85	21.8(1) 22.8(1)	19.2 18.2		12N/06E-27D02 M	139.0	10/25/84 04/02/85	87.2 87.0	51.8 52.0	5050
		08/27/85 09/26/85	24.3 21.6	16.7 19.4							
12N/04E-04R03 M	34.0	10/24/84 03/14/85	15.9 7.0	14.1 27.0	5415	12N/06E-28H01 M	124.5	10/22/84 04/02/85	85.7 81.9	42.8 46.6	5050
12N/04E-10D02 M	49.0	11/05/84 03/14/85	11.4 8.3	36.6 39.7	5415	12N/06E-30L01 M	108.3	10/25/84	65.6	42.7	5050

TABLE O (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
4 A-05 A-05-B A-05-B2	SACRAMENTO HA VALLEY-AMERICAN HA COON-AMERICAN HA PLEASANT GROVE HS4					4 A-07 A-07-A	SACRAMENTO HA COLUSA BASIN HA SYCAMORE-SUTTER HA				
12N/06E-32K01 M	117.0	10/22/84 03/28/85	86.0 84.1	29.0 32.9	5050	11N/03E-20M03 M	27.0	11/19/84 04/10/85	8.2 10.3	18.8 16.7	6244
13N/04E-22G01 M	94.5	04/09/85	23.4	31.1	6244	12N/02E-20P01 M		11/19/84 04/10/85	NM-0 7.0	18.0	6244
13N/04E-23A02 M	57.0	10/24/84 03/14/85	16.4 16.0	40.6 41.0	5415	12N/02E-23K01 M	20.0	11/19/84 04/13/85	5.1 4.1	14.9 15.9	6244
13N/04E-26R01 M	59.0	11/15/84 04/09/85	32.0 24.6	27.0 34.4	6244	13N/01E-11A01 M	31.8	10/30/84 03/07/85	14.1 (4) 6.6	17.7 29.2	5050
13N/04E-28R01 M	48.0	11/05/84 03/14/85	22.5 18.1	25.5 29.9	5415	13N/01E-12J02 M	36.0	11/19/84 04/11/85	11.6 14.1	26.4 23.9	6244
13N/04E-29A02 M	40.0	10/24/84 03/14/85	15.6 12.3	23.2 27.7	5415	13N/02E-17A01 M	25.0	10/26/84 04/04/85	6.4 6.2	18.6 18.8	5050
13N/04E-29F01 M	39.0	04/09/85	10.8	28.2	6244	13N/03E-32H01 M	23.0	11/19/84 04/10/85	2.4 4.9	20.6 16.1	6244
13N/04E-32G01 M	45.0	10/24/84 03/14/85	17.8 13.4	27.2 29.6	5415	14N/01E-08A06 M	39.0	11/19/84 04/10/85	5.5 6.6	33.5 32.4	6244
13N/04E-36E01 M	60.0	10/30/84 11/28/84 12/18/84 01/26/85 02/26/85 03/27/85 04/29/85 05/28/85 06/27/85 07/30/85 08/27/85 09/26/85	23.0 22.9 22.3 21.5 20.9 20.3 23.8 29.6 48.4 NM-1 39.2 26.3	37.0 37.1 37.7 38.5 39.1 39.7 36.2 30.4 11.6 20.8 33.5	5050	14N/01E-14G01 M	37.0	11/19/84 04/11/85	6.6 6.1	30.4 30.9	6244
13N/05E-28N01 M	80.2	11/13/84 04/09/85	35.0 23.3	45.2 56.9	6244	14N/01E-21L01 M	37.0	10/30/84 03/37/85	10.6 9.7	26.4 27.3	5050
13N/05E-30A01 M	70.5	11/15/84 04/09/85	42.3 25.8	28.2 44.7	6244	14N/01E-24Q01 M	37.0	11/19/84 04/11/85	8.0 9.4	29.0 27.6	6244
13N/05E-31K01 M	68.0	11/05/84 03/14/85	24.9 21.0	43.1 47.0	5415	14N/02E-31K01 M	31.0	11/19/84 04/11/85	7.0 5.1	24.0 25.9	6244
13N/05E-34P01 M	87.0	10/25/84 04/03/85	27.3 24.2	59.7 62.8	5050	15N/01E-16R01 M	43.5	11/12/84 04/12/85	7.4 6.6	39.1 33.9	6244
13N/05E-34R04 M	90.0	10/25/84 04/03/85	28.6 23.4	61.4 66.6	5050	14N/01W-03L02 M		03/37/85	NM-0		5050
13N/06E-30M01 M	107.8	10/25/84 04/03/85	28.4 22.5	79.4 89.3	5050	14N/01W-04K03 M	35.0	10/09/84 09/37/85	5.2 4.0	29.8 31.0	5050
						14N/01W-12A01 M	35.0	10/30/84 03/37/85	11.6 (8) 6.4	24.4 29.6	5050
						15N/01W-05G01 M	45.0	10/05/84 03/07/85	9.6 8.6	35.4 34.0	5050
						15N/01W-25A01 M	50.0	11/19/84 04/11/85	12.2 13.7	37.8 36.3	6244
						15N/02W-13M01 M		10/35/84 03/07/85	NM-0 NM-0		5050
						16N/02W-12J02 M	56.0	10/05/84 03/37/85	14.5 10.2	41.5 45.8	5050
						16N/02W-25E02 M	53.0	10/04/84 03/37/85	14.9 12.0	38.1 41.0	5050
						17N/02W-25G02 M	68.0	10/05/84 03/36/85	21.5 16.5	46.5 51.5	5050
						A-07-B A-07-B1	GLENN COLUSA HA COLUSA TROUGH H5A				
						10N/01E-02Q02 M	72.5	10/30/84 03/20/85	41.7 35.9	30.8 36.6	5104
						10N/01E-10G01 M	84.0	10/29/84 03/20/85	59.6 48.5	24.4 35.5	5104
						10N/01E-12B04 M	78.0	10/26/84 11/29/84 12/20/84 01/29/85 02/27/85 03/26/85 04/26/85 05/29/85 06/26/85 07/29/85 08/25/85 09/25/85	46.9 43.7 42.3 41.3 41.7 41.4 36.5 62.8 95.8 97.6 44.2 71.8 63.5	31.1 34.3 35.7 36.3 36.5 15.2 -17.8 -19.8 -7.2 6.2 14.5	5050
						10N/01E-14K01 M	91.0	10/30/84 03/15/85	99.8 87.4	31.2 33.8	5104
						10N/01E-15Q01 M		10/30/84 03/15/85	NM-3 NM-3		5104
						10N/01E-15R01 M	94.0	10/30/84 03/15/85	50.4 59.0	33.6 36.0	5104
						10N/01E-17L01 M		10/25/84 03/15/85	NM-0 NM-0		5104
						10N/02E-01P02 M	30.0	10/29/84 03/23/85	15.5 9.9	14.5 20.1	5104
						10N/02E-03R02 M	37.0	10/29/84 03/20/85	20.5 14.0	16.5 23.0	5104
						10N/02E-04R01 M	44.0	10/29/84 03/23/85	17.5 (1) NM-0	26.5	5104
						10N/02E-06R01 M	65.0	10/29/84	36.1	28.9	5104

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-07 A-07.8 A-07.81	SACRAMENTO HR COLUSA BASIN HU GLENN COLUSA WA COLUSA TROUGH MSA					A A-07 A-07.8 A-07.81	SACRAMENTO HR COLUSA BASIN HU GLENN COLUSA WA COLUSA TROUGH MSA				
10N/02E-06B01 M	65.0	03/20/85	32.8	32.2	5104	11N/02E-17P01 M	42.0	03/14/85	34.9	27.1	5001
10N/02E-06M01 M	72.0	10/29/84 03/20/85	44.5 39.4	27.5 32.2	5104	11N/02E-18N01 M	45.0	10/12/84 03/14/85	29.9 13.5	10.1 26.5	5001
10N/02E-08O02 M	67.0	10/29/84 03/20/85	35.4 32.8	31.6 34.2	5104	11N/02E-20K04 M	50.0	10/26/84 11/29/84 12/20/84 01/29/85 02/27/85 03/26/85	24.4 23.7 23.3 22.9 22.8 22.9	25.6 26.3 26.7 27.1 27.2 27.1	5050
10N/02E-08E01 M	67.0	10/29/84 03/20/85	36.5 29.2	30.5 37.8	5104	11N/02E-09N01 M	63.0	10/29/84 03/20/85	41.4 30.1	21.2 32.9	5104
10N/02E-09N01 M	63.0	10/29/84 03/20/85	41.4 30.1	21.2 32.9	5104	11N/01E-03O01 M	30.0	10/12/84 03/13/85	NM-9 7.7		5001
11N/01E-03O01 M	30.0	10/12/84 03/13/85	NM-9 7.7		5001	11N/01E-03E01 M	36.0	10/12/84 03/13/85	34.1 31.3	1.9 24.7	5001
11N/01E-03E01 M	36.0	10/12/84 03/13/85	34.1 31.3	1.9 24.7	5001	11N/02E-29O01 M	59.0	10/12/84 03/14/85	23.9 21.8	31.3 33.2	5001
11N/01E-04E02 M	37.0	10/12/84 03/12/85	30.2 NM-4	6.8	5001	11N/02E-29Q01 M	45.0	10/12/84 03/14/85	23.0 13.0	22.0 32.0	5001
11N/01E-06R02 M	35.0	10/12/84 03/11/85	39.5 14.2	-4.5 20.4	5001	11N/02E-30P03 M		10/12/84 03/14/85	NM-4 NM-3		5001
11N/01E-07H01 M	42.0	10/12/84 03/14/85	11.4 NM-7	30.6	5001	11N/02E-35E01 M	32.0	04/26/85	10.6	21.4	5050
11N/01E-08K01 M	43.5	10/12/84 03/11/85	39.6 18.0	3.9 23.5	5001	12N/01W-05R01 M	137.9	10/29/84 11/29/84 12/20/84 01/29/85 02/27/85 03/26/85 04/26/85 05/29/85 06/26/85 07/29/85 08/26/85 09/25/85	109.1 107.7 106.3 105.2 104.2 103.5 105.1 104.0 110.0 112.1 111.7 110.3	28.8 30.2 31.6 32.7 33.7 34.4 32.8 29.9 27.9 25.8 26.2 27.6	5050
11N/01E-09F02 M	45.0	10/12/84 03/12/85	29.7 12.8	15.3 32.2	5001	12N/01W-06J01 M	165.0	10/09/84 03/11/85	NM-9 117.0	48.0	5001
11N/01E-09P01 M	47.5	10/12/84 03/11/85	15.7 16.9	31.8 30.6	5001	12N/01W-09R02 M	80.0	10/09/84 03/11/85	60.3 55.5	19.7 24.5	5001
11N/01E-14F01 M		10/12/84 03/11/85	NM-4 NM-0		5001	12N/01W-14M01 M	43.5	10/09/84 03/11/85	29.3 16.9	14.2 26.6	5001
11N/01E-15C01 M	42.0	10/12/84 03/11/85	32.4 13.4	9.6 28.6	5001	12N/01W-15L01 M	61.0	10/09/84 03/11/85	46.8 36.5	14.2 24.5	5001
11N/01E-16P01 M	50.0	10/26/84 11/29/84 12/20/84 01/29/85 02/27/85 03/26/85 04/26/85 05/29/85 06/26/85 07/29/85 08/26/85 09/25/85	36.7 28.1 25.0 21.8 22.0 26.9 76.6 97.9 119.2 (4) 112.0 91.6 58.3	13.3 21.9 25.0 28.2 22.0 23.1 -26.6 -47.9 -69.2 -62.0 -41.6 -8.3	5050	12N/01W-22R01 M	51.0	10/29/84 11/29/84 12/20/84 01/29/85 02/27/85 03/26/85 04/26/85 05/29/85 06/26/85 07/29/85 08/26/85 09/25/85	30.0 29.2 28.4 27.7 27.2 26.7 26.0 32.8 31.4 32.1 31.0 29.1	21.0 21.8 22.6 23.3 23.8 24.3 23.0 18.2 19.6 18.9 20.0 21.9	5050
11N/01E-16Q01 M	45.0	10/09/84 03/11/85	43.4 21.7	1.6 23.3	5001	12N/01W-26L02 M	50.0	10/09/84 03/11/85	40.9 26.5	9.1 23.7	5001
11N/01E-17F01 M	50.5	10/09/84 03/11/85	25.3 NM-9	25.2	5001	12N/01W-26Q01 M	50.0	10/09/84 03/11/85	40.9 26.5	9.1 23.7	5001
11N/01E-18C01 M	52.0	10/09/84 03/11/85	36.2 30.3	-4.2 21.7	5001	12N/01W-36K02 M	37.0	10/29/84 03/11/85	37.2 19.2	-2 17.8	5001
11N/01E-18R01 M	57.0	10/09/84 03/11/85	54.1 32.5	-1.1 24.5	5001	13N/01W-03M02 M	64.0	10/12/84 03/13/85	35.7 25.8	28.3 38.2	5001
11N/01E-22O01 M	56.0	10/12/84 03/13/85	49.8 25.7	6.2 30.3	5001	13N/01W-05R01 M	41.7	10/12/84 03/13/85	16.3 NM-3	25.4	5001
11N/01E-23C02 M		10/12/84 03/11/85	NM-7 NM-0		5001	13N/01W-07G01 M	48.0	10/09/84 03/27/85	63.1 56.8	24.9 31.2	5050
11N/01E-23G02 M	52.0	10/12/84 03/11/85	38.5 21.5	13.5 30.5	5001	13N/01W-08M01 M	75.0	10/12/84 03/13/85	48.6 41.5	26.4 33.5	5001
11N/01E-23P01 M	56.0	10/12/84 03/13/85	42.0 27.6	14.0 28.4	5001	13N/01W-08O02 M		10/12/84 03/13/85	NM-1 NM-3		5001
11N/01E-24N01 M	47.0	10/12/84 03/11/85	38.2 18.5	8.8 28.5	5001	13N/01W-15N03 M	43.0	10/12/84 03/13/85	20.6 12.8	22.4 30.2	5001
11N/01E-24R01 M	44.0	10/12/84 03/14/85	25.6 12.4	18.4 31.6	5001	13N/01W-16N03 M	56.0	10/12/84 03/13/85	33.7 24.7	22.3 31.3	5001
11N/01E-25N01 M	52.0	10/12/84 03/13/85	33.7 20.4	18.3 31.6	5001	13N/01W-22P02 M	54.0	10/12/84 03/13/85	39.6 30.9	18.4 28.1	5001
11N/01E-26O01 M	60.0	10/12/84 03/13/85	45.7 27.0	14.3 33.0	5001	13N/01W-23F02 M	40.0	10/12/84 03/13/85	22.8 9.9	17.2 30.1	5001
11N/01E-26M02 M	66.0	10/12/84 03/13/85	25.8 27.6	40.2 34.4	5001	13N/01W-28E02 M	91.0	10/12/84 03/13/85	66.2 59.6	24.8 31.4	5001
11N/01E-27N02 M	63.0	10/09/84 03/11/85	52.7 32.2	10.3 30.8	5001						
11N/01E-25J02 M	58.0	10/12/84 03/13/85	35.3 22.9	22.7 35.1	5001						
11N/01E-26H01 M	60.0	10/12/84 03/14/85	41.4 27.0	18.6 33.0	5001						
11N/02E-07P01 M	39.0	10/12/84 03/14/85	19.7 15.0	19.3 24.0	5001						
11N/02E-17P01 M	42.0	10/12/84	26.6	15.4	5001						

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
4 A-07 A-07.8 A-07.81	SACRAMENTO HB COLUSA BASIN HU GLENN COLUSA HA COLUSA TROUGH NSA					A A-07 A-07.8 A-07.81	SACRAMENTO HB COLUSA BASIN HU GLENN COLUSA HA COLUSA TROUGH NSA				
13M/01W-35102 M	65.0	10/09/84 03/07/85	47.3 41.5	17.7 23.5	5050	14M/03W-29401 M	215.0	10/12/84 03/08/85	142.0 143.8	73.0 71.2	5001
13M/01W-36M01 M	48.0	10/09/84 03/11/85	32.7 24.5	15.3 23.5	5001	14M/03W-36801 M	275.0	10/12/84 03/05/85	106.5 106.2	168.7 168.8	5001
13M/02W-04601 M	187.0	10/12/84 12/12/84 02/20/85 03/12/85 05/16/85 07/17/85 09/25/85	86.3 80.2 78.3 77.4 81.9 85.6 83.6	100.7 106.8 108.7 109.6 105.1 101.4 103.4	5050 5001 5050 5001	15M/02W-19E01 M	85.0	10/05/84 03/28/85	12.9 10.4	72.1 74.8	5050
13M/02W-04603 M	187.0	10/12/84 12/12/84 02/20/85 03/12/85 05/16/85 07/17/85 09/25/85	82.0 75.8 74.1 74.1 75.6 79.8 78.2	105.0 111.2 112.9 112.9 111.4 107.2 108.8	5050 5001 5050 5001	15M/02W-31002 M	97.0	10/09/84 03/07/85	18.7 9.4	78.3 87.6	5050
13M/02W-04604 M	186.6	10/12/84 12/12/84 02/20/85 03/12/85 05/16/85 07/17/85 09/25/85	82.0 75.8 74.1 74.1 75.6 79.8 78.2	105.0 111.2 112.9 112.9 111.4 107.2 108.8	5050 5001 5050 5001	15M/03W-01M01 M	70.0	10/05/84 03/08/85	29.0(11) 21.1(11)	41.0 48.9	5050
13M/02W-04604 M	186.6	10/12/84 12/12/84 02/20/85 03/12/85 05/16/85 07/17/85 09/25/85	82.0 75.8 74.1 74.1 75.6 79.8 78.2	105.0 111.2 112.9 112.9 111.4 107.2 108.8	5050 5001 5050 5001	15M/03W-18J01 M	118.5	10/10/84 03/08/85	3.9 3.9	114.6 114.6	5001
13M/02W-04604 M	186.6	10/12/84 12/12/84 02/20/85 03/12/85 05/16/85 07/17/85 09/25/85	82.0 75.8 74.1 74.1 75.6 79.8 78.2	105.0 111.2 112.9 112.9 111.4 107.2 108.8	5050 5001 5050 5001	15M/03W-28A01 M	113.0	10/15/84 03/07/85	3.3 4.9	111.7 110.1	5050
13M/02W-04604 M	186.6	10/12/84 12/12/84 02/20/85 03/12/85 05/16/85 07/17/85 09/25/85	82.0 75.8 74.1 74.1 75.6 79.8 78.2	105.0 111.2 112.9 112.9 111.4 107.2 108.8	5050 5001 5050 5001	15M/03W-32801 M	150.0	10/10/84 03/25/85	15.0 16.2	135.0 131.8	5001
13M/02W-11M01 M	185.0	10/12/84 03/12/85	91.7 97.5	93.3 87.5	5001	15M/03W-33001 M	147.0	10/09/84 01/07/85	30.0 31.4	117.0 115.6	5050
13M/02W-12L01 M	133.0	10/09/84 03/12/85	81.5 72.2	51.5 60.8	5001	15M/03W-35G01 M	122.0	10/10/84 03/08/85	28.0 27.8	94.0 94.2	5001
13M/02W-13C01 M	135.0	10/09/84 03/07/85	109.1 94.0	25.9 41.0	5050	15M/04W-11G01 M	141.0	10/05/84 03/08/85	3.8 2.9	137.2 138.1	5050
13M/02W-13R01 M	142.0	10/09/84 03/12/85	117.2 99.2	24.8 42.8	5001	16M/03W-07001 M	113.0	10/05/84 03/08/85	7.5 9.8	105.5 103.2	5050
13M/02W-15D01 M	247.0	10/12/84 03/12/85	NM-9 95.6	151.4	5001	16M/03W-14H02 M	83.0	10/05/84 03/07/85	7.0 4.5	36.0 38.5	5050
13M/02W-15J01 M	210.0	10/09/84 03/07/85	122.6 116.5	87.4 93.5	5050	16M/03W-35M02 M	75.0	10/05/84 03/07/85	9.5 5.6	63.5 67.4	5050
13M/02W-20M01 M	338.0	10/09/84 03/07/85	111.5(12) 187.5	226.5 150.5	5050	16M/04W-02P01 M	160.0	10/05/84 03/08/85	13.8 15.4	146.2 144.6	5050
13M/02W-22M01 M	245.0	10/12/84 03/12/85	107.0 110.2	138.0 134.8	5001	17M/02W-30J02 M	61.0	10/05/84 03/07/85	5.9 4.1	55.1 56.9	5050
13M/02W-22M02 M	250.0	10/12/84 03/12/85	143.2 139.4	111.8 115.6	5001	17M/03W-08R01 M	105.0	10/05/84 03/08/85	15.0 16.4	90.0 88.6	5050
13M/02W-23L01 M	230.0	10/09/84 03/07/85	116.0 110.8	114.0 119.2	5050	17M/03W-10C01 M	94.2	10/05/84 03/07/85	6.7 7.8	87.5 86.4	5050
13M/02W-25F01 M	189.0	10/12/84 03/12/85	107.0 92.0(4)	82.0 97.0	5001	17M/03W-32H01 M	98.0	10/05/84 03/08/85	8.8 6.9	93.2 91.1	5050
14M/02W-04802 M	79.0	10/12/84 03/13/85	13.9 12.6	65.1 66.4	5001	18M/02W-18K01 M	81.0	10/05/84 03/07/85	21.2 9.3	59.8 71.7	5050
14M/02W-09801 M	78.0	10/12/84 03/13/85	27.3 NM-9	50.7	5001	18M/02W-36801 M	73.0	10/05/84 03/07/85	11.6 11.4	61.4 61.8	5050
14M/02W-13M01 M	80.0	10/12/84 03/13/85	28.2 17.8	31.8 42.2	5001	18M/03W-10L01 M	95.0	10/12/84 03/11/85	3.3 3.8	91.7 91.4	5050
14M/02W-16M02 M	118.0	10/09/84 03/07/85	41.2 36.8	76.8 81.2	5050	18M/03W-22D01 M		10/10/84	NM-6		5105
14M/02W-23P01 M	89.0	10/12/84 03/13/85	38.2(13) NM-9	50.8	5001	18M/04W-11803 M	151.0	10/10/84 03/07/85	13.4 14.9	137.6 136.1	5105
14M/02W-29J01 M	160.0	10/09/84 03/07/85	61.8 63.0	98.2 97.0	5050	18M/04W-12401 M	170.0	10/10/84 03/07/85	5.2 4.1	124.8 125.9	5105
14M/02W-31M02 M	203.0	03/08/85	54.1	228.9	5001	18M/04W-23F01 M	151.0	10/10/84 03/07/85	12.6 17.0	138.4 134.0	5105
14M/02W-34M01 M	199.1	10/12/84 03/08/85	58.3 54.1	100.5 105.0	5001	19M/02W-09A01 M	96.1	10/09/84 03/07/85	5.5 6.4	90.6 89.7	5105
14M/02W-36D01 M	94.0	10/12/84 03/13/85	87.1(13) 41.6	26.9 52.4	5001	19M/02W-13J01 M	85.0	10/12/84 03/11/85	12.2 12.0	73.8 74.0	5050
14M/02W-36M02 M	110.5	10/12/84 03/13/85	83.5 56.0	47.0 54.5	5001	19M/02W-23001 M	85.0	10/05/84 03/08/85	9.1 9.3	76.9 76.7	5105
14M/03W-01K01 M	122.0 121.0	10/09/84 03/07/85	29.0 29.0	93.0 92.0	5050	19M/02W-29001 M	90.0	10/09/84 01/25/85	4.5 3.7	85.5 86.3	5105
14M/03W-11A01 M	136.0	10/09/84 03/07/85	47.1 45.5	88.9 90.5	5050	19M/02W-34F01 M	83.0	10/09/84 03/08/85	5.9 6.0	77.1 77.0	5105
14M/03W-11M01 M	135.0	10/09/84 03/07/85	55.0 44.7	80.0 90.3	5050	19M/02W-36M01 M	81.4	10/05/84 03/08/85	8.0 10.2	73.4 71.2	5105
14M/03W-12F02 M	123.0	10/09/84 03/04/85	35.3 33.9	87.7 89.1	5001	19M/03W-06M02 M	153.7	10/11/84 03/07/85	11.8 8.0	141.9 145.7	5001
14M/03W-14002 M	171.0	10/09/84 03/07/85	104.2 98.1	66.8 72.9	5050	19M/03W-07J01 M	147.4	10/11/84 03/07/85	16.3 NM-9	131.1	5001
14M/03W-24C01 M	170.0	10/10/84 03/08/85	79.9 81.1	90.1 88.9	5001	19M/03W-07M01 M	153.3	10/11/84 03/07/85	14.6 13.9	136.7 139.4	5001
						19M/03W-26P01 M	98.0	10/10/84 03/07/85	0.0 -4	98.0 98.8	5105
						19M/03W-31R01 M		10/10/84 03/07/85	NM-9 NM-9		5105

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-07 A-07.8 A-07.81	SACRAMENTO HB COLUSA BASIN HU GLENN COLUSA HA COLUSA TROUGH H54					A A-07 A-07.8 A-07.81	SACRAMENTO HB COLUSA BASIN HU GLENN COLUSA HA COLUSA TROUGH H54				
19H/04V-01401 M	165.0	10/10/84 03/07/85	17.9 19.6	147.1 149.2	5105	21H/03V-18002 M	221.6	03/26/85	53.6	168.0	5001
19H/04V-12E01 M	174.0	10/12/84 03/11/85	13.1 11.3	160.9 162.7	5050	21H/03V-20002 M	205.1	10/11/84 03/26/85	45.4 40.2	160.7 155.9	5001
19H/04V-25801 M	192.3	10/10/84 03/07/85	5.8 6.9	146.5 145.4	5105	21H/03V-22H01 M	202.0	10/10/84 03/07/85	29.3 28.9	172.7 173.1	5105
20H/01V-07801 M	115.0	10/09/84 03/08/85	8.0 8.6	109.0 106.4	5105	21H/03V-24P01 M	178.0	10/09/84 03/07/85	16.7 16.9	161.3 161.1	5105
20H/02V-02J01 M	125.0	10/09/84 03/08/85	7.0 7.2	118.0 117.8	5105	21H/03V-31C02 M	199.0	10/11/84 03/07/85	42.9 36.5	156.1 160.5	5001
20H/02V-05A01 M	144.0	10/09/84 03/04/85	9.4 9.0	134.6 135.0	5105	21H/03V-31H01 M	187.0	10/10/84 03/07/85	33.3 29.5	153.7 157.5	5105
20H/02V-11A01 M	123.0	10/12/84 03/11/85	6.0 6.5	117.0 116.5	5050	21H/03V-31R02 M	183.0	10/10/84 12/12/84 02/20/85 03/07/85 05/16/85 07/17/85 09/25/85	27.4 25.2 20.2 23.8 42.1 47.2 29.1	155.6 160.8 162.8 157.2 140.9 139.8 153.9	5050 5001 5050 5001 5001 5001 5001
20H/02V-11A02 M	123.0	10/12/84 03/11/85	9.1 9.1	113.9 113.9	5050						
20H/02V-11A03 M	123.0	10/12/84 03/11/85	17.7 17.6	105.3 105.4	5050	21H/03V-31R03 M	183.0	10/10/84 12/12/84 02/20/85 03/07/85 05/16/85 07/17/85 09/25/85	5.2 4.0 4.9 4.9 4.9 5.3 5.6	177.8 176.0 178.1 178.1 178.1 177.7 177.4	5050 5001 5001 5001 5001 5001 5001
20H/02V-13G01 M	113.0	10/09/84 03/08/85	4.3 5.0	108.7 108.0	5105						
20H/02V-27J01 M	102.0	10/09/84 03/08/85	5.6 5.4	96.4 96.6	5105						
20H/02V-29G01 M	117.0	10/09/84 03/07/85	5.8 6.3	111.2 110.7	5105	21H/03V-31R04 M	183.0	10/10/84 12/12/84 02/20/85 03/07/85 05/16/85 07/17/85 09/25/85	27.6 22.6 20.4 24.6 44.2 34.7 27.0	155.4 160.4 162.8 156.4 138.8 143.7 156.0	5050 5001 5001 5050 5001 5001 5001
20H/03V-03S02 M	164.0	10/10/84 03/07/85	16.1 12.1	147.9 151.9	5105						
20H/03V-07X03 M	166.0	10/11/84 03/07/85	18.3 16.0	147.7 150.0	5001	21H/03V-31R05 M	183.0	10/10/84 12/12/84 02/20/85 03/07/85 05/16/85 07/17/85 09/25/85	26.9 23.7 21.1 25.2 29.8 34.7 28.4	156.1 159.3 161.9 157.8 159.2 146.3 154.6	5050 5001 5001 5050 5001 5001 5001
20H/03V-12C01 M	159.0	10/10/84 03/07/85	23.0 18.1	134.0 140.9	5105						
20H/03V-17P01 M	153.0	10/10/84 03/07/85	5.2 4.4	147.8 148.6	5105	21H/03V-31R06 M	183.0	10/10/84 12/12/84 02/20/85 03/07/85 05/16/85 07/17/85 09/25/85	2.8 4.4 2.4 2.2 2.7 1.6 3.4	180.2 182.6 180.6 180.8 180.3 181.4 179.6	5050 5001 5001 5050 5001 5001 5001
20H/03V-19801 M	159.5	10/11/84 03/07/85	5.7 NM-9	153.8	5001						
20H/03V-19H01 M	156.0	10/11/84 03/07/85	9.2 9.7	148.8 148.3	5001						
20H/03V-19Q01 M	153.0	10/11/84 03/07/85	9.8 10.0	143.2 143.0	5001						
20H/03V-21A03 M	144.0	10/11/84 03/06/85	9.9 9.1	134.1 134.9	5001	21H/03V-32H01 M	184.4	10/11/84 03/07/85	28.1 25.4	156.3 159.0	5001
20H/03V-23G02 M	146.0	10/10/84 03/07/85	23.9 17.8	122.1 126.2	5105	21H/03V-33A04 M	174.0	10/11/84 03/06/85	20.9 18.1	153.1 155.9	5001
20H/03V-29P01 M	147.0	10/11/84 03/07/85	13.1 9.8	133.9 137.2	5001	21H/03V-35L02 M	160.0	10/12/84 03/11/85	15.7 11.2	144.3 146.8	5050
20H/03V-31A03 M	150.0	10/11/84 03/07/85	12.9 10.1	137.1 134.9	5001	21H/04V-23H01 M	259.0	10/11/84 03/06/85	98.5 NM-9	160.5	5001
20H/03V-32C01 M	150.0	10/11/84 03/07/85	24.2 20.5	125.8 129.5	5001	21H/04V-24A02 M	230.0	10/11/84 03/26/85	74.2 69.2	155.8 160.8	5001
20H/03V-33J01 M	136.0	10/11/84 03/06/85	13.6 7.2	122.4 128.8	5001	A-07.82	ORLAND H54				
20H/04V-12F02 M	187.0	10/10/84 03/07/85	10.7 12.4	176.3 174.6	5105	21H/02V-02802 M	161.0	10/09/84 03/04/85	21.6 23.6	139.2 137.4	5105
20H/04V-25J01 M	158.0	10/11/84 03/07/85	13.1 15.3	144.9 142.5	5001	21H/02V-03Q01 M	162.8	10/09/84 03/04/85	16.8 13.0	145.8 149.6	5105
21H/02V-07E01 M	190.0	10/09/84 03/04/85	13.0 15.0	177.0 175.0	5105	21H/02V-15801 M	161.0	10/09/84 03/04/85	22.6 21.0	138.4 140.0	5105
21H/02V-09H02 M	179.0	10/09/84 03/04/85	22.2 20.3	156.8 158.7	5105	21H/02V-23G01 M	152.0	10/12/84 03/11/85	20.3(8) 16.3(8)	131.5 133.7	5050
21H/02V-19H01 M	172.0	10/09/84 03/04/85	13.7 14.9	158.3 157.1	5105	22H/02V-20Q01 M	199.0	10/11/84 03/04/85	8.1 9.3	190.9 189.7	5105
21H/02V-20R01 M	166.0	10/11/84 03/04/85	15.4 14.3	150.6 151.7	5105	22H/02V-31C01 M	203.0	10/12/84 03/11/85	11.0 7.8	192.0 195.2	5050
21H/02V-31M01 M	161.0	10/09/84 03/07/85	16.5 14.2	142.5 146.8	5105	22H/02V-32H03 M	187.0	10/11/84 03/04/85	11.0 9.8	176.0 177.2	5105
21H/03V-02801 M	219.0	10/09/84 03/04/85	15.7 17.4	203.3 201.6	5105	22H/02V-36B01 M	154.7	10/11/84 03/08/85	17.1 13.1	146.6 145.6	5105
21H/03V-09R01 M	220.8	10/11/84 03/06/85	23.8 NM-4	197.0	5001	22H/03V-21F02 M	262.0	10/12/84 03/11/85	18.0 21.0	244.0 241.0	5050
21H/03V-11G01 M	200.0	10/09/84 03/04/85	15.0 19.7	185.0 180.3	5105	22H/03V-29R01 M	285.0	10/11/84 03/26/85	17.8 24.3	250.2 243.7	5001
21H/03V-12C02 M	202.0	10/09/84 03/04/85	15.1 16.8	186.9 185.2	5105	22H/03V-30C01 M	285.0	10/12/84 03/11/85	93.4 83.3	191.6 201.7	5050
21H/03V-19A02 M	221.6	10/11/84	41.5	160.1	5001	22H/03V-32R01 M	247.2	10/11/84 03/06/85	18.0 23.4	229.2 223.8	5001

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
4 A-07 A-07-B A-07-B2	SACRAMENTO HA COLUSA BASIN HU GLENN COLUSA HA ORLANDO HS4					4 A-07 A-07-C	SACRAMENTO HA COLUSA BASIN HU SUTTER BYPASS HS4				
22H/03W-33A02 M	242.0	10/11/84 03/06/85	18.8 22.8	223.2 219.2	5001	16W/02E-26001 M	67.0	11/12/84 04/14/85	13.2 13.9	53.8 53.1	6244
22H/03W-34A01 M	233.0	10/09/84 03/04/85	9.5 12.4	223.5 220.6	5103	16W/03E-07002 M	73.0	11/12/84 04/12/85	7.8 H=-1	85.2	6244
A-07-C SUTTER BYPASS HS4						16W/03E-21001 M	69.5	04/14/85	7.7	61.8	6244
13H/03E-02H01 M	42.9	11/13/84 04/10/85	13.8 15.6	29.1 27.3	6244	16W/03E-21002 M	70.0	10/26/84 04/04/85	10.1 9.7	59.9 60.3	5050
13H/03E-04J01 M	38.0	11/13/84 04/10/85	8.2 8.5	29.8 29.5	6244	16W/03E-33J02 M	65.4	11/12/84 04/14/85	18.4 22.4	47.0 43.0	6244
13H/03E-06K01 M	33.7	11/13/84 04/10/85	12.2 8.6	23.5 25.1	6244	17W/02E-14A01 M	82.5	10/23/84 03/03/85	5.0 5.6	77.5 76.9	5050
13H/03E-08M02 M	33.0	11/13/84 04/10/85	5.9 5.5	27.1 27.5	6244	17W/02E-16C01 M	74.0	10/04/84 03/03/85	4.5 5.3	69.5 68.7	5050
13H/03E-13001 M	36.8	11/13/84 04/10/85	14.6 13.1	24.2 23.7	6244	17W/02E-31A01 M	86.0	11/12/84 04/12/85	32.2 31.0	53.8 55.0	6244
13H/03E-14C02 M	36.0	11/13/84 04/10/85	8.4 10.0	27.6 26.0	6244	17W/03E-05C01 P	95.0	10/24/84 03/03/85	12.5 H=-0	83.5	5050
13H/03E-16A01 M	34.6	11/13/84 04/10/85	7.1 8.2	27.5 26.4	6244	17W/03E-08G01 M	90.0	10/23/84 03/03/85	10.7(4) 9.5	79.3 80.5	5050
14H/03E-05C01 M	49.1	11/12/84 04/14/85	18.6 21.9	30.5 27.2	6244	17W/03E-16H01 M	85.0	10/23/84 03/03/85	12.4 13.1	72.6 69.9	5050
14H/03E-14E02 M		04/15/85	H=-9		6244	17W/03E-30H01 M	77.8	11/12/84 04/12/85	12.8 12.3	65.0 65.3	6244
14H/03E-17A03 M	46.0	10/26/84 11/28/84 12/21/84 01/28/85 02/27/85 03/27/85 04/26/85 05/29/85 06/26/85 07/29/85 08/26/85 09/26/85	23.6 22.3 21.7 20.6 19.9 20.3 23.3 28.9 30.7 33.4 12.6 29.5	22.4 23.7 24.3 25.4 26.1 23.7 20.7 17.1 13.3 12.6 16.5	5050	A-07-D BUTTE BASIN HA					
14H/03E-22B02 M	46.6	11/12/84 06/13/85	19.9 18.1	26.7 28.5	6244	16W/01E-08C01 M	58.0	11/12/84 04/12/85	8.8 9.2	49.2 46.8	6244
14H/03E-33B01 M	38.0	04/13/85	8.2	20.8	6244	17W/01E-10A01 M	63.0	10/24/84 03/03/85	16.1(1) 9.3	46.9 53.7	5050
14H/03E-33C01 M	38.6	11/13/84 04/10/85	10.2 9.8	28.4 28.8	6244	17W/01E-25J01 M	79.5	11/12/84 04/12/85	31.0 H=-9	44.5	6244
15H/01E-14F01 M	51.0	11/12/84 06/12/85	21.8 24.7	29.2 26.3	6244	17W/01E-13G01 M	65.0	11/12/84 04/12/85	20.3 16.5	47.7 51.5	6244
15H/02E-22C01 M	46.0	10/26/84 04/04/85	8.5 8.5	37.5 37.5	5050	18W/01E-13M01 M	77.0	10/23/84 03/03/85	3.8 7.0	73.2 70.0	5050
15H/02E-24B01 M	51.0	11/14/84 04/12/85	10.2 6.6	40.8 42.4	6244	18W/01E-15D02 M	70.0	10/23/84 03/03/85	3.2 3.0	66.8 67.0	5050
15H/02E-35D01 M	42.5	11/12/84 04/14/85	7.7 6.8	34.8 33.7	6244	19W/01E-17C01 M	73.4	10/09/84 03/03/85	6.8 6.1	63.6 64.3	5105
15H/02E-36A01 M	44.5	11/12/84 04/14/85	7.4 7.5	37.1 37.0	6244	18W/02E-16F01 M	80.0	10/23/84 03/03/85	6.4 6.7	73.6 73.3	5050
15H/03E-05D02 M	59.6	11/12/84 04/14/85	12.2 13.3	47.4 44.3	6244	18W/02E-32O02 M	75.0	10/23/84 03/03/85	5.0 7.2	70.0 67.8	5050
15H/03E-10G02 M	61.0	11/12/84 04/14/85	18.0 17.4	43.0 43.6	6244	18W/03E-18F01 M	97.5	10/23/84 03/03/85	5.9(8) 5.8(8)	91.6 91.7	5050
15H/03E-15H04 M	59.0	11/12/84 04/14/85	19.5 20.1	39.5 38.9	6244	19W/01E-09R01 M	90.0	10/23/84 03/03/85	3.5 11.0	86.5 79.0	5050
15H/03E-17A02 M	55.0	11/12/84 04/14/85	19.5 18.4	35.5 36.5	6244	19W/01E-27O01 M	85.0	10/23/84 03/03/85	5.2 4.7	79.8 80.3	5050
15H/03E-20R01 M	52.7	11/12/84 04/12/85	16.1 15.2	36.6 37.5	6244	19W/01E-28R01 M	80.0	10/23/84 03/03/85	7.2 5.1	72.8 74.9	5050
15H/03E-21H02 M	51.0	10/26/84 11/28/84 12/21/84 01/29/85 02/27/85 03/27/85 04/26/85 05/29/85 06/26/85 07/27/85 08/26/85 09/26/85	18.6 17.7 17.4 16.9 16.9 16.6 19.8(4) 20.3 23.3 24.6 24.7 23.1	32.4 33.3 33.6 34.1 34.1 34.4 31.2 30.7 27.7 26.4 26.3 27.9	5050	20W/01E-10C02 M	125.0	10/23/84 03/03/85	15.0 10.0	110.0 115.0	5050
15H/03E-26M01 M	51.2	11/12/84 04/14/85	31.7 H=-1	19.5	6244	20W/01E-35C01 M	100.0	10/23/84 03/03/85	4.5 4.0	95.5 96.0	5050
15H/03E-33H04 M	46.0	11/12/84 04/14/85	23.3 23.1	24.7 22.9	6244	20W/02E-06O01 M	135.3	10/23/84 03/03/85	15.1 11.4	120.2 123.9	5050
16W/01E-31-O1 M	71.0	11/12/84 04/12/85	28.7 28.5	41.3 42.5	6244	20W/02E-09L01 M	137.0	10/23/84 03/03/85	9.5 6.7(4)	127.5 130.3	5050
16W/02E-02-O1 M	71.0	11/12/84 04/12/85	4.0 5.6	67.0 65.4	6244	20W/02E-28H01 M	114.0	10/23/84 03/03/85	5.7 5.0	112.3 113.0	5050
						20W/03E-06-M01 M	215.0 214.0	10/22/84 03/03/85	75.5 70.0	139.5 134.6	5050
						21W/01E-12-H01 M	147.0	10/02/84 03/03/85	46.5 35.5(8)	130.5 131.5	5050
						21W/01E-27-O1 M	141.0	10/02/84 03/03/85	28.4 20.6	112.6 120.4	5050

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-07 A-07.0	SACRAMENTO HA COLLISA BASIN HU AUTTE BASIN HA					A A-08 A-08.4	SACRAMENTO HA PARYSVILLE HU LOWER BEAR RIVER HA				
21N/02E-07C01 M	203.0	10/02/84 03/03/85	75.5 63.6	127.5 137.4	5050	13N/04E-01001 M	62.0	11/01/84 03/20/85	51.3 43.0	10.7 19.0	1453
21N/02E-26E02 M	177.0	10/04/84 03/05/85	14.6 14.3	162.4 162.7	5050	13N/04E-13F01 M	69.1	11/15/84 04/30/85	32.8 26.4	36.3 42.7	6244
21N/02E-26F01 M	181.0	10/02/84 03/05/85	42.5 36.6	136.3 144.4	5050	13N/04E-22001 M	50.0	10/24/84 03/14/85	25.5 19.3	24.5 30.7	5415
16N/01W-20F01 M	59.0	10/04/84 03/06/85	22.4 19.0	36.6 40.0	5050	13N/05E-01X01 M	125.0	10/25/84 04/03/85	31.6 32.1	94.2 93.9	5050
17N/01W-06R01 M	70.0	10/04/84 03/06/85	NM-1 18.5(8)	51.5	5050	13N/05E-03J01 M	95.0	10/23/84 04/03/85	25.6 24.2	69.4 70.6	5050
18N/01W-17G01 M	79.0	10/09/84 03/06/85	17.7 NM-1	61.3	5105	13N/05E-04B02 M	88.0	10/23/84 03/29/85	64.4 53.3	23.6 34.7	5050
18N/01W-22L01 M	70.0	10/09/84 03/08/85	6.2 6.1	61.8 63.9	5105	13N/05E-04C02 M	85.0	10/30/84 11/28/84 12/21/84 01/28/85 02/28/85 03/29/85 04/29/85	43.9 42.3 41.2 41.7(4) 39.8 39.7 NM-1	41.1 42.7 43.8 43.3 45.2 45.3	5050
18N/01W-32L02 M	75.0	10/04/84 03/05/85	13.9 11.2(8)	61.1 63.8	5050	18N/01W-33K01 M	60.0	10/04/84 03/06/85	1.6 2.0	56.2 56.0	5050
18N/01W-33K01 M	60.0	10/04/84 03/06/85	1.6 2.0	56.2 56.0	5050	19N/01W-15001 M	91.0	10/09/84 03/06/85	12.7 11.3	78.3 79.5	5105
19N/01W-15001 M	91.0	10/09/84 03/06/85	12.7 11.3	78.3 79.5	5105	19N/01W-27R01 M	81.0	10/09/84 03/08/85	15.7 12.9	65.3 68.1	5105
20N/01W-26H01 M	105.2	10/02/84 03/04/85	9.9 10.7	95.3 94.5	5050	20N/01W-26H01 M	105.2	10/02/84 03/04/85	9.9 10.7	95.3 94.5	5050
20N/01W-26H02 M	105.6	10/02/84 03/04/85	8.8 9.7	96.8 95.9	5050	20N/01W-26H02 M	105.6	10/02/84 03/04/85	8.8 9.7	96.8 95.9	5050
21N/01W-04H01 M	135.0	10/09/84 03/08/85	18.6 18.0	116.4 117.0	5105	21N/01W-04H01 M	135.0	10/09/84 03/08/85	18.6 18.0	116.4 117.0	5105
21N/01W-17F01 M	132.5	10/09/84 03/08/85	16.7 17.6	115.8 114.7	5105	21N/01W-17F01 M	132.5	10/09/84 03/08/85	16.7 17.6	115.8 114.7	5105
21N/01W-23J01 M	117.0	10/01/84 03/04/85	11.5 9.8	105.5 107.2	5050	21N/01W-23J01 M	117.0	10/01/84 03/04/85	11.5 9.8	105.5 107.2	5050
						13N/05E-16C01 M	69.6	10/24/84 03/14/85	34.2 29.0	35.4 40.6	5415
						13N/05E-21R03 M	80.0	10/24/84 03/14/85	18.5 17.2	61.5 62.8	5415
						13N/05E-22C03 M	80.0	10/25/84 04/03/85	12.7 11.3	67.3 68.7	5050
						13N/05E-24E02 M	92.0	10/25/84 04/33/85	24.1 15.1	87.9 76.9	5050
						13N/05E-24J01 M	101.3	10/30/84 04/03/85	29.7 24.6	71.6 76.7	5050
						13N/06E-06A01 M	160.0	10/25/84 04/33/85	47.6 45.6	112.2 114.4	5050
						14N/04E-24P01 M	69.0	11/01/84 03/20/85	103.4 90.0	-34.4 -21.0	1453
						14N/04E-38G01 M	68.8	11/01/84 03/20/85	43.3 72.0	-14.5 -3.2	1453
						14N/05E-10P02 M	112.0	10/23/84 03/29/85	70.3 50.6	41.7 52.2	5050
						14N/05E-12N01 M	121.0	10/23/84 03/29/85	9.8 9.3	111.4 111.7	5050
						14N/05E-13C01 M	121.0	10/23/84 03/29/85	35.3 25.1	85.7 93.9	5050
						14N/05E-20002 M	86.0	11/01/84 03/20/85	119.1 106.3	-33.1 -20.3	1453
						14N/05E-27L02 M	92.0	11/01/84 03/20/85	90.1 85.6	1.9 6.4	1453
						14N/05E-30001 M	77.2	10/29/84 11/29/84 12/26/84 01/26/85 02/28/85 03/29/85 04/29/85 05/26/85 06/27/85 07/26/85 08/26/85 09/26/85	91.2 88.4 86.0 83.8 82.0 81.0 80.6 81.0 80.1 106.9 108.5 108.0 96.2	-14.0 -11.2 -8.6 -6.6 -4.8 -3.4 -13.8 -19.1 -29.3 -31.3 -30.8 -19.0	5050
						14N/05E-32R02 M	74.0	10/23/84 03/29/85	63.4 54.5	10.6 19.5	5050
						14N/05E-34G01 M	108.0	10/23/84 01/29/85	84.2 78.9	23.6 29.1	5050
						A-08.8 OLIVENHUT HA					
						13N/04E-07E01 M	34.7	03/20/85	15.1	23.6	1453

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-08 A-08.0	SACRAMENTO RR MARYSVILLE HU OLIVEHURST HA					A A-08 A-08.0	SACRAMENTO RR MARYSVILLE HU OLIVEHURST HA				
13N/04E-17P01 M	41.1	11/01/84 03/20/85	17.6 13.9	23.3 27.2	1453	15N/04E-32D01 M	64.0	04/26/85 05/20/85 05/25/85 07/27/85 08/26/85 09/26/85	51.8 54.7 61.3 63.1 61.2 55.9	12.2 9.3 2.7 1.0 2.8 8.2	5050
14N/03E-12F01 M	52.0	11/02/84 03/20/85	30.2 29.7	21.8 22.3	1453	15N/04E-35P01 M	88.0	11/01/84 03/19/85	43.7 41.1	-15.7 -13.1	1453
14N/03E-24B01 M	48.2	11/02/84 03/20/85	33.3 29.1	14.9 19.1	1453	15N/05E-07K01 M	100.0	10/23/84 04/04/85	61.5 56.0	38.5 44.0	5050
14N/03E-25C02 M	48.0	11/02/84 03/20/85	25.2 22.3	22.8 25.7	1453	15N/05E-24C02 M	91.0	10/23/84 04/04/85	117.0 117.2	-28.0 -26.2	5050
14N/03E-36C02 M	50.0	11/02/84 03/20/85	17.2 24.7	32.8 25.3	1453	15N/05E-30B01 M	88.0	10/30/84 11/26/84 12/21/84 01/29/85 02/27/85 03/27/85 04/26/85 05/20/85 06/25/85 07/29/85 08/26/85 09/26/85	119.1 115.0 114.4 111.6 112.0(4) 109.0 112.1 117.9 125.4(4) 124.4 125.2 120.4	-31.1 -27.9 -28.8 -23.6 -24.0 -21.0 -24.1 -29.9 -37.4 -36.4 -37.2 -32.4	5050
14N/04E-11H01 M	71.5	11/01/84 03/20/85	106.9 101.5	-35.4 -30.0	1453	A-08.C LOWER YUBA RIVER HA					
14N/04E-13C01 M	73.1	11/01/84 03/20/85	101.8 95.3	-30.7 -22.2	1453	15N/04E-04D01 M	85.4	10/31/84 03/19/85	MM-9 31.4	54.0	1453
14N/04E-15C03 M	64.0	10/23/84 03/29/85	76.4 70.9	-12.4 -6.9	5050	15N/04E-10A01 M	90.0	10/23/84 04/04/85	20.2 32.9	60.8 57.5	5050
14N/04E-20H01 M	42.0	11/01/84 03/20/85	37.8 32.6	4.2 9.4	1453	15N/04E-16P01 M	76.3	10/31/84 03/19/85	41.9 39.5	34.4 36.8	1453
14N/04E-30F01 M	44.0	11/02/84 03/20/85	29.2 26.6	14.8 17.4	1453	15N/04E-20E01 M	71.0	10/31/84 03/19/85	29.1 29.3	41.9 41.7	1453
14N/04E-30K01 M	45.0	11/02/84 03/20/85	28.8 25.1	16.2 19.9	1453	15N/05E-06B01 M	109.0	10/23/84	25.1	79.9	5050
14N/05E-06B01 M	77.8	11/01/84 03/19/85	111.3 103.4	-33.5 -25.6	1453	16N/04E-34Q01 M	94.6	10/31/84	16.2	78.4	1453
14N/05E-08B01 M	88.9	11/01/84 03/20/85	MM-3 107.6	-18.7	1453	A-08.0 LOWER FEATHER RIVER HA					
14N/05E-16C02 M	98.0	11/01/84 03/20/85	117.4 108.6	-19.4 -8.6	1453	15N/03E-11C02 M	60.0	10/31/84 03/19/85	24.4 24.2	33.6 35.8	1453
15N/03E-25J01 A	57.0	11/02/84 03/20/85	16.9 18.7	40.1 38.3	1453	15N/04E-07H01 M	69.0	10/31/84 03/19/85	18.5 19.0	50.3 50.0	1453
15N/04E-11K02 M	83.0	10/23/84 04/04/85	40.0 33.0	43.0 46.0	5050	16N/03E-01P02 M	78.0	10/31/84 03/19/85	18.5 14.0	59.3 64.0	1453
15N/04E-13A01 M	89.0	10/23/84 04/04/85	64.2 MM-7	24.8	5050	16N/03E-14B02 M	73.2	10/31/84 03/19/85	16.1 12.9	57.1 60.3	1453
15N/04E-15A01 M	78.5	10/31/84 03/19/85	30.2 28.4	48.3 50.1	1453	16N/03E-24A01 M	69.0	10/31/84 03/19/85	13.8 10.9	55.2 58.1	1453
15N/04E-15R01 M	81.0	10/31/84 03/19/85	31.4 14.2	27.6 31.8	1453	16N/03E-26F01 M	69.6	12/31/84 03/19/85	19.9 17.3	49.7 52.1	1453
15N/04E-22P01 M	72.0	10/31/84 03/19/85	61.3 57.9	10.7 14.1	1453	16N/03E-36G01 M	63.5	12/31/84 03/19/85	13.7 11.7	49.4 51.8	1453
15N/04E-23A01 M	83.0	10/31/84 03/19/85	71.5 64.6	11.5 18.4	1453	16N/04E-08A01 M	91.0	10/31/84 03/19/85	19.8 15.0	71.2 78.0	1453
15N/04E-24A01 M	86.3	10/23/84 04/04/85	MM-8 95.0	-8.7	5050	16N/04E-17B01 M	81.0	10/23/84 04/14/85	9.3 8.5	71.7 72.5	5050
15N/04E-24B01 M	85.0	10/23/84 04/04/85	100.6 90.5	-15.6 -3.5	5050	17N/03E-03D01 M	95.0	10/23/84 33/05/85	24.0 23.0	71.0 72.0	5050
15N/04E-24H01 M	80.0	10/23/84 04/04/85	111.6 99.1	-31.6 -19.1	5050	17N/03E-13N01 M	89.0	10/03/84 03/06/85	24.0 18.3	61.0 66.7	5050
15N/04E-24M01 M	79.0	10/30/84 11/28/84 12/21/84 01/29/85 02/27/85 03/27/85 04/26/85 05/20/85 06/25/85 07/26/85 08/26/85 09/26/85	89.0 86.1 84.2 81.2 79.4 78.0 82.7 90.8 94.1 97.9 98.2 94.6	-10.0 -7.1 -5.2 -2.2 -4 1.0 -3.7 -11.8 -15.1 -18.9 -19.2 -15.6	5050	17N/03E-22B01 M	85.5	10/31/84 03/19/85	25.4 23.7	60.1 61.8	1453
15N/04E-24R02 M	81.0	10/23/84 04/04/85	111.0 99.8	-30.0 -18.8	5050	17N/03E-26A02 M	84.6	10/31/84 03/19/85	23.9 21.5	62.7 65.1	1453
15N/04E-25I02 M	78.0	10/31/84 03/19/85	104.8 100.0	-26.8 -22.0	1453	17N/03E-35H02 M	82.0	10/31/84 03/19/85	22.6 19.1	59.4 62.7	1453
15N/04E-26C01 M	75.0	10/31/84 03/19/85	44.3 78.6	-9.3 -3.8	1453	17N/04E-08A01 M	96.0	10/23/84 03/26/85	19.0 27.5	77.0 84.5	5050
15N/04E-27A01 M	81.0	10/31/84 03/19/85	74.4 70.6	6.6 10.4	1453	17N/04E-22R01 M	119.0	10/23/84 03/26/85	17.2 102.3	97.8 102.3	5050
15N/04E-27J01 M	71.0	10/23/84 04/04/85	74.9 71.3	-3.9 -5.0	5050	17N/04E-27F01 M	106.0	10/31/84 03/19/85	24.9 19.9	81.1 86.1	1453
15N/04E-28B01 M	77.1	10/31/84 03/19/85	63.7 59.7	13.4 17.4	1453	17N/04E-30R01 M	80.0	10/31/84 03/19/85	19.4 13.9	70.6 75.1	1453
15N/04E-32D01 M	84.0	10/30/84 11/28/84 12/21/84 01/29/85 02/27/85 03/27/85	51.5 49.7 46.0 47.8 47.7 47.3	12.5 14.9 19.0 16.2 16.3 16.7	5050	17N/04E-33Q01 M	109.0	10/31/84 03/19/85	27.9 52.8	77.1 82.2	1453
						17N/04E-35Q01 M	125.0	10/31/84 03/19/85	34.5 25.9	90.7 99.4	1453

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
4 A-08 A-08.0	SACRAMENTO NR MADYSVILLE NU LOWER FEATHER RIVER HA					4 A-11 A-11.C A-11.C2	SACRAMENTO NR FEATHER RIVER NU MIDDLE FORK FEATHER HA SLOAT HSA				
18H/03E-05K01 M	110.4	10/03/84 03/06/85	14.5(8) 12.5(8)	95.9 97.9	5050	22H/12E-09P01 M	4352.0	10/01/84 03/25/85	23.4 5.3	4328.6 4346.7	5050
18H/03E-21G01 M	104.0	10/03/84 03/06/85	20.5 18.8	83.5 85.2	5050	22H/12E-09Q01 M	4386.0	10/01/84 03/25/85	6.3 4.6	4399.7 4361.4	5050
18H/05E-25N01 M	125.0	10/04/84 03/06/85	57.4 49.0	67.6 80.0	5050	A-11.C4	SIERPA VALLEY HSA				
18H/04E-09K01 M	149.0	10/04/84 03/06/85	46.7(8) 34.8	98.3 110.2	5050	20H/14E-04G02 M	4942.0	10/01/84 03/25/85	-1.2 -1.1	4943.2 4943.1	5050
18H/04E-16C01 M	201.0	10/04/84 03/06/85	NM-8 72.0(13)		5050	20H/14E-04G08 M	4940.0	10/01/84 03/25/85	7.9 NM-2	4932.1	5050
18H/04E-28L01 M	135.0	10/04/84 03/06/85	43.7 33.5	91.3 101.5	5050	20H/14E-11A02 M	4924.8	10/01/84 03/25/85	2.3 1.4	4922.5 4923.4	5050
19H/03E-05N02 M	140.0	10/03/84 03/06/85	20.4 18.4	119.6 121.6	5050	20H/14E-13J02 M	4985.6	10/01/84 03/25/85	2.9 .5	4982.7 4985.1	5050
19H/03E-21C01 M	170.0	10/03/84 03/06/85	49.4 45.3(8)	120.6 121.7	5050	20H/14E-14R01 M	5055.0	10/01/84 03/25/85	1.9 4.4	5033.1 5030.6	5050
19H/04E-32P01 M	187.0	10/04/84 03/06/85	56.0 51.5	131.0 135.5	5050	20H/15E-07M02 M	4937.0	10/01/84 03/25/85	-1.6 -1.7	4937.6 4938.7	5050
						21H/14E-10P01 M		10/01/84 03/25/85	NM-7 -7	4899.4	5050
						21H/14E-14M01 M	4900.0	10/01/84 03/25/85	-2.0 -2.0	4902.0 4902.0	5050
						21H/14E-20A03 M	4960.0	10/01/84 03/25/85	5.2 3.9	4954.8 4956.1	5050
						21H/14E-21J01 M	4914.0	10/01/84 03/25/85	NM-7 -3.0(15)	4917.0	5050
						21H/14E-23P03 M	4935.0	10/01/84 03/25/85	21.5 18.6	4913.5 4916.4	5050
						21H/14E-29J01 M	4932.6	10/01/84 03/25/85	8.6 1.2	4924.0 4931.4	5050
						21H/14E-32R01 M	4975.2	10/01/84 03/25/85	36.3(14) 33.9	4936.9 4939.9	5050
						21H/14E-36Q02 M	4923.0	10/01/84 03/25/85	2.0 1.4	4918.0 4918.6	5050
						21H/15E-03J02 M	4892.5	10/02/84 03/26/85	40.0 6.6	4852.5 4883.9	5050
						21H/15E-04L01 M	4888.1	10/02/84 03/25/85	7.8 4.4	4890.3 4893.7	5050
						21H/15E-04N02 M	4892.0	10/02/84 03/25/85	9.6 4.7	4892.4 4887.3	5050
						21H/15E-04O01 M	4893.0	10/02/84 03/25/85	6.8 5.1	4886.2 4887.9	5050
						21H/15E-05E01 M	4884.5	10/02/84 03/25/85	NM-7 -1.5(13)	4886.0	5050
						21H/15E-05P01 M	4887.0	10/02/84 03/25/85	NM-7 -3.9(13)	4890.9	5050
						21H/15E-07R01 M	4892.7	10/01/84 03/25/85	-3.0 NM-7	4895.7	5050
						21H/15E-09N07 M	4910.0	10/01/84 03/25/85	NM-7 -3.0	4913.0	5050
						21H/15E-09Q03 M	4912.0	10/02/84 03/25/85	-1.6 NM-0	4913.6	5050
						21H/15E-11M01 M	4902.0	10/02/84 04/01/85	26.9 1.8	4875.1 4900.2	5050
						21H/15E-12C01 M	4918.6	10/01/84 04/01/85	6.4 2.3	4912.4 4916.3	5050
						21H/15E-12N01 M	4921.5	10/02/84	12.3	4909.2	5050
						21H/15E-12N02 M	4921.5	04/01/85	2.5	4919.0	5050
						21H/15E-14Q02 M	4919.0	10/02/84 03/26/85	8.3 4.7	4908.7 4909.3	5050
						21H/15E-14L01 M	5000.0	10/02/84 03/26/85	88.6 78.1	4913.4 4921.9	5050
						21H/15E-17A01 M	4916.2	10/01/84 03/25/85	-2.8 NM-7	4919.0	5050
						21H/15E-18F02 M	4891.4	10/01/84 03/26/85	-2.8 NM-7	4894.2	5050
						21H/16E-06A01 M	4934.8	10/03/84 03/26/85	1.8 1.6	4933.0 4933.2	5050
						21H/16E-06H03 M	4950.0	10/03/84 03/26/85	47.8 33.9	4902.2 4916.1	5050
						21H/16E-07F04 M	4961.0	10/03/84 04/01/85	20.0 8.0	4941.0 4953.0	5050
						21H/16E-08Q02 M	4960.0	10/03/84	48.0	4914.0	5050

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
4 A-11 A-11-C4 A-11-C4	SACRAMENTO HB FEATHER RIVER MU MIDDLE FORK FEATHER HA SIERRA VALLEY MSA					A A-11 A-11-C4 A-11-C4	SACRAMENTO HB FEATHER RIVER MU MIDDLE FORK FEATHER HA SIERRA VALLEY MSA				
21N/16E-08002 M	4960.0	03/26/85	31.1	4928.9	5050	22N/16E-18001 M	4906.9	10/03/84 04/04/85	37.9 A.4	4950.0 4959.5	5050
21N/16E-18001 M	4995.1	10/04/84 03/26/85	21.3 17.2	4973.8 4977.9	5050	22N/16E-18001 F	4900.0	10/03/84 04/04/85	30.8(R) N.4(18)	4961.2 4993.6	5050
21N/16E-18006 M	4980.0	10/03/84 03/26/85	-4 NM-7	4980.4	5050	22N/16E-19001 M	4900.0	10/03/84 04/04/85	19.8 9.5	4960.4 4980.5	5050
21N/16E-30J01 M	5120.0	10/03/84 04/01/85	39.4 NM-2	5080.6	5050	22N/16E-19001 M	4912.6	10/03/84 04/04/85	27.5 14.8	4985.1 4997.8	5050
22N/14E-02N02 M	4870.5	10/01/84 03/26/85	-2.5 NM-7	4873.0	5050	22N/16E-19001 M	4893.1	10/03/84 04/04/85	27.1 A.2	4966.0 4986.9	5050
22N/14E-11001 M	4914.0	10/01/84 03/25/85	-1.3 NM-7	4915.3	5050	22N/16E-20002 M	4920.8	10/03/84 04/04/85	5.4 NM-7	4915.4	5050
22N/14E-13K02 M		10/01/84 03/25/85	NM-7 NM-7		5050	22N/16E-20002 M	4934.6	10/03/84 04/04/85	-1 .1	4934.7 4934.5	5050
22N/14E-14F02 M	4900.0	10/01/84 03/25/85	-5.4 -7.4(15)	4905.4 4907.4	5050	22N/16E-30001 M	4915.0	10/03/84 04/04/85	18.2(R) N.5(18)	4904.8 4906.5	5050
22N/14E-26L01 M	4894.5	10/01/84 03/25/85	-1.7 -1.8	4896.2 4895.3	5050	23N/14E-25001 M	4891.7	10/03/84 03/25/85	14.7 6.1	4877.0 4885.2	5050
22N/15E-03P01 M	4890.0	10/02/84 03/25/85	21.2 27.5	4868.8 4862.5	5050	23N/14E-25001 M	4891.1	10/03/84 03/25/85	9.7 3.4	4861.4 4867.7	5050
22N/15E-04N01 M	4878.2	10/02/84 03/25/85	4.0 5.7(11)	4874.2 4872.5	5050	23N/14E-26002 M		10/03/84 03/26/85	NM-6 NM-0		5050
22N/15E-08001 M	4877.0	10/02/84 03/26/85	4.8 1.9	4872.2 4875.1	5050	23N/14E-35L01 M	4877.5	10/03/84 03/26/85	11.0 6.9	4864.5 4870.6	5050
22N/15E-10C01 M	4890.0	10/02/84 03/25/85	48.9 26.5	4841.1 4863.5	5050	23N/15E-20M01 M		10/03/84 03/25/85	NM-9 NM-7		5050
22N/15E-13N01 M	4893.0	10/02/84 03/25/85	47.6(18) 19.0	4845.4 4874.0	5050	23N/15E-21L01 M	4915.0	10/03/84 03/26/85	NM-9 4.5		5050
22N/15E-15001 M	4889.0	10/02/84 04/04/85	4.2 2.3	4884.8 4886.7	5050	23N/15E-25J01 M	4909.0	10/03/84 03/25/85	82.9 29.5	4846.1 4870.5	5050
22N/15E-16L01 M	4881.0	10/02/84 03/25/85	NM-3 16.3	4864.7	5050	23N/15E-26001 M	4894.0	10/03/84 03/25/85	49.2 16.8	4844.8 4861.2	5050
22N/15E-17H01 M	4880.0	10/02/84 03/25/85	16.7 9.8	4863.3 4870.2	5050	23N/15E-26R01 M	4899.0	10/03/84 03/25/85	53.5 19.5	4845.5 4879.5	5050
22N/15E-22001 M	4880.9	10/02/84 04/04/85	10.2 8.8	4870.7 4872.1	5050	23N/15E-27E01 M		10/03/84 03/25/85	NM-9 4.0		5050
22N/15E-26M01 M	4886.2	10/01/84 04/04/85	28.1 1.3	4856.1 4884.9	5050	23N/15E-29M01 M	4895.4	10/03/84 03/25/85	-1.2 NM-7	4897.6	5050
22N/15E-27001 M	4882.0	10/02/84 04/04/85	42.3 5.3	4839.7 4876.7	5050	23N/15E-29M01 F	4883.0	10/03/84 03/25/85	3.0(16) NM-7	4860.0	5050
22N/15E-28L01 M		10/02/84 03/25/85	NM-3 13.2		5050	23N/15E-34001 M	4884.3	10/03/84 03/25/85	-1 NM-7	4886.4	5050
22N/15E-34G01 M	4880.0	10/02/84 04/04/85	45.5 NM-0	4834.5	5050	23N/15E-35L01 M		10/03/84 03/26/85	NM-9 6.0		5050
22N/15E-34L02 M	4890.5	10/02/84 04/01/85	46.0 7.7	4844.5 4882.8	5050	23N/15E-36001 M	4901.0	10/01/84 03/25/85	55.4 21.6	4845.6 4879.4	5050
22N/15E-34M02 M		10/02/84 04/04/85	NM-5 NM-7		5050	23N/15E-36J01 M	4905.6	10/01/84 03/26/85	3.5 3.8	4902.1 4901.8	5050
22N/15E-35H01 M	4899.7	10/02/84 04/04/85	27.8 NM-7	4861.9	5050	23N/15E-36J02 M		10/03/84 03/25/85	NM-4 NM-0		5050
22N/15E-36M01 M	4900.0	10/03/84 04/04/85	36.6 NM-7	4863.4	5050	23N/16E-19M01 M	4924.8	10/01/84 03/26/85	12.8 NM-7	4912.0	5050
22N/15E-36J01 M		10/03/84 04/04/85	NM-4 NM-4		5050	23N/16E-23F01 M	4990.0	10/03/84 03/24/85	14.3 13.4	4975.7 4976.6	5050
22N/15E-36M01 M	4897.0	10/03/84 04/04/85	45.6 NM-7	4851.4	5050	23N/16E-27R01 M	4963.2	10/03/84 03/26/85	7.0 6.5	4956.2 4956.7	5050
22N/15E-36001 M	4906.2	10/03/84 04/04/85	36.2 NM-7	4872.0	5050	23N/16E-28L01 F	4938.5	10/03/84 03/25/85	12.0 NM-7	4926.5	5050
22N/16E-01A02 M	5080.0	10/03/84 03/26/85	31.4 32.3	5048.6 5047.7	5050	23N/16E-29G01 M	4930.0	10/01/84 03/25/85	29.1 3.0	4900.9 4927.0	5050
22N/16E-04A01 M	4932.0	10/04/84 03/25/85	14.7 3.6	4917.3 4928.4	5050	23N/16E-30A01 M		10/01/84 03/26/85	NM-4 NM-0		5050
22N/16E-06R02 M	4908.0	10/03/84 03/25/85	61.5(R) 28.8	4846.5 4879.2	5050	23N/16E-30C01 M	4915.0	10/01/84 03/25/85	11.1 NM-7	4906.9	5050
22N/16E-07G01 M	4906.0	10/03/84 03/25/85	54.7 25.4	4840.3 4880.6	5050	23N/16E-30R01 M	4915.0	10/01/84 03/26/85	70.0 37.3	4845.0 4877.7	5050
22N/16E-08P01 M	4910.0	10/03/84 04/04/85	66.5(R) 15.5(R)	4843.5 4804.5	5050	23N/16E-32001 M	4920.0	10/01/84 03/25/85	72.4 36.8	4847.6 4881.4	5050
22N/16E-17C01 M	4907.0	10/03/84 04/04/85	34.3 9.9	4872.7 4897.1	5050	23N/16E-33C01 M	4934.6	10/01/84 03/26/85	5 -2.0(13)	4934.1 4937.6	5050
22N/16E-17001 M	4910.0	10/04/84 04/04/85	63.8 13.5	4846.2 4906.5	5050	23N/16E-34M01 M		10/01/84 03/26/85	NM-3 NM-0		5050
22N/16E-17E02 M	4901.3	10/03/84 04/04/85	36.3 8.6	4845.0 4892.7	5050	23N/16E-36001 M		10/01/84	NM-8		5050

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A-11 A-11-C A-11.C4	SACRAMENTO HA FEATHER RIVER HU MIDDLE FORK FEATHER HA SIERRA VALLEY HSA					A-13 A-13.A	SACRAMENTO HA TENAYA HU LOWER STONY CREEK HA				
23H/16E-36001 M	5120.0	03/26/85	53.5(3)	5066.5	5050	22H/03W-10001 M	236.2	10/12/84 03/04/85	13.3 13.7	242.7 240.3	5105
23H/16E-36002 M	5010.0	10/01/84 03/26/85	9.8 7.8	5000.2 5002.2	5050	22H/03W-17E01 M	263.0	10/10/84 01/24/85	11.5 13.8	271.5 269.2	5105
23H/16E-36P02 M		03/26/85	NM=0		5050	A-13.B	PEO BLUFF HA				
23H/17E-30M01 M	5059.0	10/01/84 03/26/85	NM=7 ~5	5089.3	5050	22H/01E-02E01 M	218.0	10/31/84 03/04/85	65.8 35.3	192.2 182.7	5050
A-11.0 A-11.04	NORTH FORK FEATHER HA MOUNT HARKNESS HSA					22H/01E-09J02 M	178.0	10/01/84 03/04/85	26.8 23.0	149.2 135.0	5050
27H/08E-03E01 M		10/05/84 03/25/85	NM=2 NM=2		5050	22H/01E-20K01 M	165.3	10/32/84 03/04/85	29.0 24.3	136.5 141.2	5050
27H/08E-10G01 M	4919.0	10/05/84 03/25/85	NM=7 0	4315.0	5050	22H/01E-28J01 M	176.0	10/32/84 01/04/85	36.3 30.8	139.7 145.2	5050
27H/08E-10K01 M	4910.0	10/05/84 03/25/85	2.0 3.3	4508.0 4506.7	5050	22H/01E-28J02 M	176.0	10/32/84 03/04/85	19.2 15.3	156.8 160.7	5050
28H/06E-24A01 M	4530.0	10/05/84 03/25/85	29.3 36.0	4500.7 4494.0	5050	22H/01E-28J03 M	176.0	10/32/84 03/04/85	30.6 27.5	149.4 148.5	5050
28H/07E-03M01 M	4520.0	10/04/84 03/25/85	27.0 32.1	4493.0 4487.9	5050	22H/01E-28J05 M	176.0	10/32/84 03/04/85	39.1 29.5	138.9 146.5	5050
28H/07E-03M01 M	4529.0	10/05/84 03/25/85	13.8 21.8	4509.2 4503.2	5050	22H/01E-29R01 M	164.7	10/32/84 03/05/85	19.2 21.7	145.5 143.0	5050
28H/07E-18G02 M	4540.0	10/05/84 03/25/85	44.0 43.9	4496.0 4496.1	5050	22H/02E-17E01 M	281.0	10/31/84 03/04/85	126.7(3) 108.2(3)	154.3 172.8	5050
28H/07E-18G02 M	4540.0	10/05/84 03/25/85	33.2 41.9	4504.8 4498.1	5050	23H/01E-18A01 M	230.0	10/31/84 03/04/85	74.0 69.0	176.0 181.0	5050
28H/08E-21K01 M	4540.0	10/05/84 03/25/85	1.4 7	4538.6 4539.3	5050	23H/01E-29P01 M	203.0	10/01/84 03/04/85	40.1 34.8	182.9 169.2	5050
28H/08E-21K02 M	4540.0	10/05/84 03/25/85	1.7 8	4538.3 4539.2	5050	22H/01W-05M01 M	149.9	10/01/84 03/04/85	21.4 18.5	128.5 131.4	5050
						22H/01W-29K01 M	142.0	10/11/84 01/04/85	16.5 36.7	125.5 105.3	5105
						22H/02W-03004 M	185.0	10/11/84 03/04/85	28.1 19.0	156.9 166.0	5105
						22H/02W-03E01 M	192.0	10/11/84 03/07/85	44.6 38.4	147.4 123.6	5105
						22H/02W-03F01 M	191.0	10/11/84 03/04/85	37.3 28.8	133.7 164.2	5105
						22H/02W-05B01 M		10/11/84 03/04/85	NM=2 NM=2		5105
						22H/02W-06R02 M	205.0	10/12/84 03/11/85	37.0 24.9	168.0 180.1	5050
						22H/02W-09001 M	207.0	10/11/84 01/37/85	32.7 29.9	174.3 181.1	5105
						22H/02W-09L03 M	195.0	10/11/84 03/24/85	31.1 34.5	183.9 180.5	5105
						22H/02W-11001 M	164.0	10/11/84 01/04/85	25.0 25.1	139.0 138.9	5105
						22H/02W-21001 M	198.0	10/11/84 03/24/85	18.8 18.5	179.2 179.5	5105
						22H/02W-23M01 M	175.0	10/11/84 03/04/85	15.2 17.7	159.8 157.3	5105
						22H/03W-03001 M	266.0	10/10/84 03/24/85	74.1 60.6	193.9 207.4	5105
						22H/03W-04E01 M	283.0	10/11/84 03/26/85	70.8 64.0	212.2 219.0	5001
						22H/03W-05F02 M	295.0	10/11/84 03/26/85	70.3(8) 65.6	224.7 229.4	5001
						22H/03W-06M01 M	301.0	10/10/84 03/24/85	13.9 18.7	287.1 284.3	5105
						22H/03W-12003 M	230.0	10/10/84 01/24/85	32.4 24.2	197.6 205.8	5105
						23H/01W-09E01 M	181.0	03/24/85	24.2	156.8	5050
						23H/01W-14F01 M	189.0	01/24/85	32.9	196.1	5050
						23H/01W-27L01 M	160.0	10/01/84 03/24/85	21.8 15.4	138.2 144.2	5050
						23H/01W-36P01 M	162.0	10/31/84 03/04/85	23.0 19.4	137.0 142.2	5050
						23H/02W-16R01 M	182.3	10/11/84 03/07/85	38.0 35.2	144.5 147.3	5050
						23H/02W-22N02 M	181.0	10/11/84 03/27/85	36.2 31.8	142.8 149.2	5050
						23H/02W-25C01 M	195.0	10/31/84	23.0	132.0	5050

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS													
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY		
A 4-13 4-13.6	SACRAMENTO HS TENAMA MU RED BLUFF HA					A 4-13 4-13.6	SACRAMENTO HS TENAMA MU RED BLUFF HA						
234/02W-29C01	M	195.0	03/04/85	19.6	135.4	050	294/03W-19401	M	325.0	10/17/84 03/04/85	56.2 44.3	268.8 276.7	9050
234/02W-34401	M	170.0	10/18/84 03/07/85	26.5 24.2	143.3 145.8	050	294/03W-22L01	M	275.0	10/17/84 03/04/85	41.0 35.8	234.0 239.2	9050
234/03W-09601	M	277.0	10/19/84 03/07/85	36.2 30.6	240.8 246.4	050	294/03W-31R01	M	311.0	10/19/84 03/07/85	7.1 8.3	310.9 311.7	9050
234/03W-12L01	M	247.0	10/18/84 03/07/85	57.4 47.8	189.6 199.2	050	294/04W-23401	M	368.0	10/17/84 03/04/85	36.2 32.7	309.8 315.3	9050
234/03W-22001	M	232.0	10/18/84 03/07/85	52.2 42.7	179.8 189.3	050	264/02W-14G01	M	311.7	10/17/84 03/05/85	73.6 77.5	238.1 234.2	9050
234/03W-24402	M	209.0	10/18/84 03/07/85	40.4 28.6	164.6 176.4	050	264/02W-16C01	M	240.0	10/19/84 03/04/85	17.2 14.7	222.4 222.4	9050
234/03W-36402	M	233.0	10/18/84 03/07/85	33.3 46.0	179.7 187.0	050	264/02W-17E01	M	236.0	10/19/84 03/05/85	20.0 16.7	214.0 221.3	9050
244/01W-05J01	M	310.0	10/18/84 03/06/85	29.4 33.8	280.6 276.2	050	264/02W-21001	M	235.0	10/17/84 03/06/85	14.5 19.4	220.5 215.6	9050
244/01W-09002	M	287.0	10/18/84 03/06/85	41.8 43.4	245.2 243.6	050	264/02W-24401	M	220.0	10/17/84 03/04/85	14.7 14.8	205.3 205.4	9050
244/01W-18401	M	234.0	10/19/84 03/08/85	66.7 62.5	187.3 191.5	050	264/02W-24801	M	228.0	10/18/84 03/06/85	9.1 8.9	216.9 219.1	9050
244/02W-12J01	M	243.0	10/18/84 03/06/85	15.6 16.9	227.2 226.1	050	264/02W-24902	M	223.0	10/18/84 03/05/85	3.5 4.4	224.5 227.6	9050
244/02W-20C01	M	234.4	10/19/84 03/07/85	50.9(11) 54.0(11)	183.9 179.6	050	264/03W-04K01	M	299.0	10/18/84 03/04/85	54.2 54.7	226.8 230.3	9050
244/02W-23G01	M	197.0	10/18/84 03/06/85	24.7 23.4	172.3 173.6	050	264/03W-08401	M	307.6	10/17/84 03/04/85	50.1 44.4	257.5 263.2	9050
244/02W-29E01	M	216.5	03/07/85	33.1	183.4	050	264/03W-11F01	M	262.0	10/17/84 03/04/85	41.1 33.2	220.9 226.8	9050
244/02W-36801	M	180.0	10/18/84 03/06/85	19.2 18.6	160.8 161.4	050	264/03W-21P01	M	284.5	10/17/84 03/04/85	54.7 46.7	229.8 237.8	9050
244/03W-01801	M	245.0	10/19/84 03/08/85	37.7 33.1	207.3 211.9	050	264/03W-24F01	M	230.0	10/17/84 03/04/85	12.6 15.7	217.4 214.3	9050
244/03W-02R01	M	255.0	10/19/84 03/08/85	16.1 11.0	238.9 244.0	050	264/03W-34P01	M	271.9	10/17/84 03/04/85	32.6 42.4	220.3 230.5	9050
244/03W-14K01	M	297.0	10/19/84 03/07/85	33.0 49.2	242.0 247.8	050	264/04W-01L01	M	325.0	10/17/84 03/04/85	110.4 103.3	200.2 216.7	9050
244/03W-16401	M	288.5	10/19/84 03/07/85	31.4 27.6	257.1 260.9	050	264/04W-25J01	M	331.0	10/17/84 03/04/85	41.8 36.6	289.2 292.4	9050
244/03W-17401	M	313.0	10/19/84 03/07/85	42.3 37.8	270.7 275.2	050	274/02W-30C02	M	280.0	10/17/84 03/06/85	31.4(11) 29.3	248.6 250.7	9050
244/03W-20401	M	306.0	10/19/84 03/07/85	44.6 40.1	261.4 267.9	050	274/02W-31C01	M	261.0	10/17/84 03/05/85	33.2 31.2	227.8 229.8	9050
244/03W-26K01	M	280.0	10/18/84 03/07/85	40.5 40.2	239.5 239.8	050	274/02W-31P01	M	259.0	10/11/84 04/11/85	21.6 19.1	233.4 233.9	9050
244/03W-35P04	M	230.0	10/18/84 03/07/85	19.6 17.3	210.4 212.7	050	274/03W-10801	M	312.0	10/19/84 03/06/85	51.7 50.0	258.3 254.1	9050
244/04W-02401	M	374.2	10/19/84 03/07/85	17.6 16.3	361.6 362.9	050	274/03W-10401	M	280.0	10/11/84 04/11/85	32.7 24.2	247.3 255.6	9050
244/04W-14402	M	372.5	10/19/84 03/07/85	57.3 60.4	315.2 312.1	050	274/03W-16J01	M	271.4	10/11/84 04/11/85	33.5 27.0	237.9 244.4	9050
254/02W-09601	M	262.0	10/18/84 03/05/85	37.9 36.3	224.5 225.7	050	274/03W-16402	M	275.0	10/19/84 03/05/85	21.4 20.3	244.6 249.7	9050
254/02W-21601	M	210.0	10/18/84 03/06/85	18.3 12.2	191.7 197.9	050	274/03W-20C01	M	225.3	10/11/84 04/11/85	12.3 16.2	214.0 210.1	9050
254/02W-30G01	M	226.0	10/19/84 03/04/85	37.2 38.4	188.8 187.6	050	274/03W-23D01	M	269.0	10/17/84 03/06/85	27.6 20.9	241.4 246.1	9050
254/02W-34K01	M	204.0	10/18/84 03/06/85	13.2 15.0	190.8 189.0	050	274/03W-27G01	M	254.4	10/11/84 04/11/85	21.1 18.6	238.3 240.6	9050
254/03W-06E01	M	315.0	10/17/84 03/04/85	50.2 40.1	264.8 274.9	050	274/03W-29401	M	264.5	10/11/84 04/11/85	21.9 20.2	242.6 244.3	9050
254/03W-10L01	M	274.0	10/17/84 03/04/85	42.0 38.3	232.0 235.7	050	274/03W-26L01	M	264.4	10/11/84 04/11/85	16.8 15.6	247.6 248.8	9050
254/03W-10L03	M	274.0	10/17/84 03/04/85	43.1 39.3	230.9 234.7	050	274/03W-35C01	M	254.0	10/11/84 04/11/85	20.6 20.3	237.4 237.7	9050
254/03W-10L05	M	274.0	10/17/84 03/04/85	15.6 15.7	258.4 254.3	050	274/04W-35E01	M	434.0	10/17/84 03/04/85	115.4 109.8	320.9 329.2	9050
254/03W-11F01	M	256.0	10/17/84 03/04/85	32.7(11) 32.6	223.3 223.4	050							
254/03W-13J01	M	230.7	10/19/84 03/04/85	32.2 52.8(11)	194.5 177.9	050							
254/03W-15A01	M	266.5	10/17/84 03/04/85	16.1(11) 33.0(8)	230.4 233.5	050							

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A 4-17 4-17.A	SACRAMENTO RR REDDING HU ENTERPRISE FLAT WA					A 4-17 4-17.B	SACRAMENTO RR REDDING HU LOWER COTTONWOOD WA				
30N/03V-04M01 M	494.5	11/02/84 03/27/85	79.5 84.2	415.0 410.3	5050	29N/05V-26N01 M	498.7	10/25/84 03/27/85	32.6 27.7	467.1 472.0	9050
30N/03V-18F02 M	395.0	10/26/84 03/27/85	10.8 12.9	384.2 382.1	5050						
30N/03V-29X01 M	419.6	10/26/84 10/28/84 03/28/85	38.7 36.7 39.5	380.9 380.9 380.1	5050						
30N/04V-03001 M	473.3	10/26/84 03/28/85	52.8 52.4	420.5 420.9	5050						
30N/04V-05X01 M	455.0	10/26/84 03/27/85	47.1 45.1	407.9 409.9	5050						
30N/04V-15F03 M	426.0	10/26/84 03/27/85	17.1 16.3	408.9 409.7	5050						
30N/04V-23C01 M	450.0	10/26/84 03/27/85	65.2 N4-5	384.8	5050						
30N/05V-02001 M	710.0	10/26/84 03/27/85	101.5 102.3	608.5 607.7	5050						
30N/05V-05001 M	820.0	10/26/84 03/27/85	126.5 126.1	691.5 693.9	5050						
31N/03V-06M01 M	520.5	11/02/84 03/29/85	61.4 60.0	459.1 460.5	5050						
31N/03V-10J01 M	499.5	11/02/84 03/29/85	MM-2 26.3(8)	473.2	5050						
31N/03V-18B01 M	457.6	11/02/84 03/29/85	48.4 49.4	409.2 408.2	5050						
31N/03V-24C01 M	570.0	11/01/84 03/29/85	70.9 67.7	499.1 502.3	5050						
31N/03V-28L01 M	500.0	11/02/84 03/29/85	85.0 86.6	415.0 413.4	5050						
31N/03V-29M01 M	416.4	03/28/85	24.2	392.2	5050						
31N/04V-09D01 M	544.0	11/02/84 03/28/85	104.9 102.0	439.1 442.0	5050						
31N/04V-15X01 M	515.0	11/02/84 03/29/85	111.9 110.4	403.1 404.6	5050						
31N/04V-16M01 M	512.0	11/01/84 03/29/85	102.6 95.7	409.4 416.3	5050						
31N/04V-16M01 M	522.0	11/01/84 11/02/84 03/29/85	99.0 99.0 93.3	423.0 423.0 428.7	5050						
31N/04V-25001 M	489.0	10/26/84 03/28/85	88.0 86.0	401.0 403.0	5050						
31N/04V-27F01 M	492.0	11/01/84 03/28/85	88.0 81.9	404.0 410.1	5050						
31N/04V-29R02 M	442.0	10/26/84 03/28/85	15.0 22.6(11)	427.0 419.4	5050						
32N/04V-33C01 M	630.0	11/02/84 03/29/85	122.2 120.4	507.8 509.6	5050						
4-17.B	LOWER COTTONWOOD WA										
29N/03V-06F01 M	409.7	10/26/84 03/27/85	33.6 36.4	376.1 373.3	5050						
29N/04V-02F01 M	445.0	10/26/84 03/27/85	58.7 60.8	386.3 384.2	5050						
29N/04V-04R03 M	505.0	10/26/84 03/27/85	61.1 60.8	443.9 444.2	5050						
29N/04V-05001 M		10/26/84	MM-0		5050						
29N/04V-19E02 M	425.0	10/25/84 03/27/85	33.9(8) 36.7(8)	391.1 388.3	5050						
29N/04V-28001 M	500.0	10/25/84 03/27/85	97.6 96.0	402.4 404.0	5050						
29N/04V-30L01 M	489.9	10/25/84 03/27/85	52.7 47.4	437.2 442.5	5050						
29N/04V-35X01 M	535.0	10/25/84 03/27/85	82.7 84.1	452.3 450.9	5050						
29N/05V-07401 M	549.0	10/26/84 03/27/85	45.2 42.2	503.8 506.8	5050						
29N/05V-09L01 M	515.0	10/26/84 03/27/85	27.0 25.0	488.0 490.0	5050						
29N/05V-11402 M	512.0	10/26/84 03/27/85	52.0 50.2	460.0 461.8	5050						
29N/05V-14L01 M	490.0	10/25/84 03/27/85	34.0 38.6	455.0 459.4	5050						
29N/05V-16R01 M	530.0	10/25/84 03/27/85	56.2(8) 53.2	473.8 479.8	5050						

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-23 A-23-C A-23-C1	SACRAMENTO RIVER PIT RIVER HU MCARTHUR WA 816 LAKE HSA					A A-23 A-23-0 A-23-02	SACRAMENTO RIVER PIT RIVER HU 816 VALLEY WA UPPER ASM CREEK HSA				
37N/04E-08601 M	3323.6	10/15/84 03/21/85	28.7 28.1	3294.9 3297.5	5050	39N/09E-02P03 M	4286.0	11/01/84 04/16/85	10.7 10.9	4275.3 4275.1	5050
37N/04E-10101 M	3310.0	10/15/84 03/21/85	29.8 14.3	3280.2 3295.7	5050	39N/09E-13M03 M	4211.0	11/01/84 04/16/85	5.2 4.1	4205.8 4206.9	5050
37N/04E-11401 M	3310.0	10/15/84 03/21/85	31.2 20.5	3278.8 3289.5	5050	A-23-E A-23-E1	UPPER PIT CANBY HSA				
37N/04E-13801 M	3310.0	10/15/84 03/21/85	30.7 27.5	3259.3 3282.5	5050	41W/10E-08001 M	4303.4	10/19/84 03/28/85	6.8 NM-9	4296.6	5050
37N/05E-01101 M	3322.7	10/15/84 04/17/85	10.5 10.4	3312.2 3312.1	5050	41W/11E-03602 M	4360.0	10/19/84 03/28/85	4.3 5.1	4354.7 4354.9	5050
37N/05E-02602 M	3315.3	10/15/84 04/17/85	8.5 4.7	3307.0 3310.8	5050	41W/11E-05L03 M	4320.0	10/19/84 03/29/85	2.7 7.1	4317.3 4312.9	5050
37N/05E-03M01 M	3308.0	10/15/84 04/17/85	3.3 4.0	3304.7 3304.0	5050	42W/09E-25M01 M	4320.0	10/18/84 03/28/85	29.8 NM-9	4290.2	5050
37N/05E-13J01 A	3270.0	10/15/84 04/17/85	10.1 NM-1	3259.9	5050	42W/09E-36401 M	4290.0	10/19/84 03/29/85	17.5 NM-9	4272.3	5050
37N/05E-21402 M	3311.0	10/15/84 04/17/85	32.1 31.4	3278.9 3279.6	5050	42W/11E-09P01 M	4400.0	10/19/84 03/28/85	36.0 NM-9	4384.0	5050
37N/05E-23F01 M	3340.0	10/15/84 04/17/85	39.8 37.2	3300.2 3302.8	5050	42W/11E-30C01 M	4345.6	10/18/84 03/29/85	32.0 25.1	4308.6 4315.3	5050
37N/05E-29001 M	3321.0	10/15/84 04/17/85	80.6 80.0	3240.4 3241.0	5050	42W/11E-30F01 M	4360.0	10/19/84 03/28/85	92.9 NM-9	4287.1	5050
37N/05E-20M01 M	3360.0	10/15/84 04/17/85	22.0 21.7	3338.0	5050	A-23-E2	ALTURAS HSA				
37N/06E-32801 M	3320.0	10/15/84 04/17/85	23.8 21.2	3296.2 3298.8	5050	41W/12E-11001 M	4382.6	10/18/84 03/28/85	25.8 23.5	4356.8 4359.0	5050
38N/04E-27001 M	3317.0	10/15/84 03/21/85	24.5 3.0 (8)	3292.5 3314.0	5050	41W/12E-15001 M	4400.0	10/18/84 03/28/85	46.0 NM-9	4354.0	5050
38N/04E-33F01 M	3318.0	10/15/84 03/21/85	10.4 3.5	3307.6 3312.5	5050	42W/12E-02M01 M	4421.0	10/18/84 03/28/85	73.7 87.5	4347.3 4353.5	5050
A-23-0 A-23-01	816 VALLEY WA 816EBER HSA					42W/12E-11E01 M	4380.0	10/18/84 03/28/85	55.0 NM-9	4325.0	5050
37N/07E-13K02 M	4124.0	11/01/84 04/18/85	27.9 19.0	4096.1 4105.0	5050	42W/12E-27R01 M	4370.0	10/18/84 03/28/85	14.2 13.1	4355.8 4356.9	5050
37N/08E-06C01 M	4130.0	11/01/84 04/18/85	17.5 10.5	4112.5 4119.5	5050	42W/13E-06P01 M	4398.0	10/18/84 03/28/85	6.2 5.7	4381.8 4382.3	5050
38N/07E-12601 M	4140.0	11/01/84 04/18/85	8.6 7.8 (1)	4131.4 4132.2	5050	42W/13E-06P02 M	4395.0	10/19/84 03/28/85	21.5 NM-9	4373.5	5050
38N/07E-20P06 M	4123.0	11/01/84 04/18/85	18.9 12.9	4104.1 4110.1	5050	42W/13E-18M01 M	4415.0	10/18/84 03/28/85	36.5 30.0	4378.5 4385.0	5050
38N/07E-23E01 M	4120.0	11/01/84 04/18/85	23.0 17.7	4097.0 4102.3	5050	42W/13E-18001 M	4380.0	10/18/84 03/28/85	11.0 NM-9	4369.0	5050
38N/07E-24J02 M	4119.0	11/01/84 04/18/85	9.0 3.3	4126.0 4131.7	5050	42W/13E-31P02 M	4382.0	10/18/84 03/23/85	7.9 NM-9	4354.1	5050
38N/07E-32402 M	4119.3	11/01/84 04/18/85	5.5 1.2	4110.0 4114.3	5050	42W/13E-34M01 M	4431.1	10/18/84 03/29/85	14.3 11.3	4416.8 4419.8	5050
38N/08E-03001 M	4160.0	11/01/84 04/18/85	24.8 18.5	4135.2 4141.5	5050	43W/13E-32001 M	4438.0	10/19/84 03/28/85	22.3 17.0	4415.7 4421.0	5050
38N/08E-16001 M	4166.0	11/01/84 04/18/85	29.3 19.5	4138.7 4146.5	5050	44W/14E-08601 M	4745.0	10/16/84 03/26/85	32.2 NM-9	4712.8	5050
38N/08E-17K01 M	4149.9	11/01/84 04/18/85	10.1 10.1	4139.8 4139.8	5050	44W/14E-07J01 M	4760.0	10/16/84 03/25/85	30.1 26.0	4729.9 4734.0	5050
38N/09E-08F01 M	4250.0	11/01/84 04/18/85	27.1 27.7	4222.9 4222.3	5050	44W/14E-08F02 M	4800.0	10/16/84 03/26/85	71.0 66.5	4729.0 4733.5	5050
38N/09E-18E01 M	4245.0	11/01/84 04/18/85	18.8 10.3	4228.2 4228.7	5050	A-23-E3	JESSE VALLEY HSA				
38N/09E-18M01 M	4285.0	11/01/84 04/18/85	58.6 57.3	4226.4 4227.7	5050	37N/13E-19A02 M	5311.0	10/05/84 03/29/85	14.6 8.9	5298.4 5306.1	5050
39N/07E-01401 M	4200.0	10/31/84 04/18/85	34.1 22.4	4165.9 4177.6	5050						
39N/07E-22G01 M	4140.0	10/31/84 04/18/85	8.4 8.2	4131.6 4131.8	5050						
39N/07E-26E01 M	4130.0	10/31/84 04/18/85	7.6 5.5	4122.4 4124.5	5050						
39N/08E-18M02 M	4180.0	10/31/84 04/18/85	7.5 26.8	4132.5 4133.2	5050						
39N/08E-21C01 M	4198.0	10/31/84 04/18/85	21.9 13.8	4136.1 4144.2	5050						
39N/09E-28F01 M	4203.2	11/01/84 04/18/85	7.3 5.8	4195.9 4197.4	5050						
39N/09E-32401 M	4240.0	11/01/84 04/18/85	41.9 (M) NM-2	4194.1	5050						

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A A-24 A-24.A	SACRAMENTO HB LAKEVIEW MU DAVIS CREEK HA										
45N/13E-24R01 M	4852.0	10/16/84 03/27/85	9.1 11.0	4822.9 4821.0	5050						
45N/14E-17P01 M	4796.9	10/16/84 03/27/85	61.1 55.4	4735.8 4741.5	5050						
45N/14E-18R01 M	4745.2	10/16/84 03/27/85	31.8 NM-9	4713.4	5050						
45N/14E-19N01 M	4740.0	10/16/84 03/27/85	17.5 NM-9	4722.5	5050						
45N/14E-20K01 M	4803.0	03/27/85	54.5	4748.5	5050						
45N/14E-32C01 M	4820.0	10/16/84 03/27/85	72.3 NM-4	4747.7	5050						
47N/14E-02K03 M	4780.0	10/16/84 03/27/85	25.8 14.6	4754.2 4765.4	5050						
47N/14E-11L02 M	4780.0	10/16/84 03/27/85	12.0 NM-9	4768.0	5050						
48N/14E-24R01 M	4863.0	10/16/84 03/27/85	34.4 20.5	4828.6 4842.5	5050						

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
8 6-01	SAN JOAQUIN SAN JOAQUIN	MB DELTA	HU			8 6-01	SAN JOAQUIN SAN JOAQUIN	MB DELTA	HU		
01N/03E-17E01 H		10/09/84	NM-0	5050		01S/03E-15A01 H	23.0	03/19/89	5.3	17.7	5050
01N/06E-03K01 H	11.0	10/15/84 03/12/85	NM-9 22.3	-11.3	5050	01S/04E-32N01 H	21.0	10/11/84 03/12/85	1.9 3.9	19.1 17.1	5110
01N/06E-04J02 H	8.0	10/15/84 03/12/85	10.0 16.4	-11.0 -8.4	5050	01S/05E-31R02 H	4.0	10/11/84 03/12/85	4.4 3.4	-4.4 .6	5110
01N/06E-05M01 H	3.0	12/21/84 03/12/85	12.7 12.5	-9.7 -9.5	5050	01S/05E-35002 H	9.0	10/11/84 03/12/85	7.5 7.5	.5 .5	5110
01N/06E-05M04 H	.0	03/14/85	6.0	-6.0	5110	01S/06E-04A02 H	8.5	10/17/84 03/13/85	7.2 5.9	1.3 2.6	5050
01N/06E-08R02 H	5.0	03/14/85	3.5	1.5	5110	01S/06E-19F01 H	10.0	10/17/84 03/13/85	10.0(4) 7.9	.0 2.1	5050
01N/06E-10R01 H	14.0	10/15/84 03/12/85	20.9 26.6	-15.9 -14.6	5050	01S/06E-22002 H	15.0	10/17/84 03/18/85	7.2 5.3	2.8 4.5	5050
01N/06E-16M01 H		10/01/84 03/29/85	NM-7 NM-6		5001	01S/06E-23C03 H	13.0	10/17/84 03/13/85	9.3 6.6	3.7 6.4	5050
01N/06E-17A01 H	4.0	10/01/84 03/12/85	NM-7 4.2	-2	5050	01S/06E-34K01 H	9.0	03/14/85	4.3	4.7	5050
01N/06E-27R01 H	11.0	10/01/84 12/21/84 03/13/85	NM-7 19.0 19.7	-8.0 -8.7	5050	02S/04E-09A01 H	46.0	10/11/84 03/12/85	6.0 6.0	40.0 36.0	5110
01N/07E-31L01 H	21.0	10/01/84 03/19/85	NM-7 26.6	-7.8	5001 5050	02S/04E-10M02 H	46.0	10/23/84 03/26/85	6.3 2.6	39.7 43.4	5001
02N/06E-17J01 H	11.2	10/13/84 03/12/85	40.7 NM-1	-29.5	5050	02S/04E-15R02 H	62.0	10/23/84 03/26/85	4.2 3.2	57.8 59.8	5001
02N/06E-20F01 H	14.8	10/13/84 03/12/85	23.6 22.4	-10.8 -7.6	5050	02S/04E-16L01 H	98.0	10/23/84 03/26/85	12.7 15.2	86.3 82.6	5001
02N/06E-32G01 H	4.0	12/21/84 03/24/85 02/22/85 03/25/85 04/25/85 05/24/85 06/24/85 07/25/85 08/23/85 09/23/85	14.9 14.4 14.4 14.5 14.6 17.5 16.6 10.2 20.2 18.3	-10.9 -10.4 -10.4 -10.5 -10.6 -13.5 -14.8 -15.2 -16.2 -14.3	5050	02S/05E-08R01 H	4.0	10/11/84 03/12/85	9.7 NM-7	-5.7	5110
02N/06E-34L01 H	15.8	10/15/84 03/12/85	32.9 30.2	-17.1 -14.4	5050	02S/05E-13M01 H	24.0	10/11/84 03/12/85	9.3 13.3	14.7 10.7	5110
03N/05E-03M02 H	2.7	10/24/84 03/13/85	4.2 4.2	-1.5 -1.5	5050	02S/05E-17M01 H	24.0	10/23/84 03/27/85	9.2 4.5	14.8 19.5	5001
03N/05E-14C01 H	6.7	10/19/84 03/12/85	8.0 5.0	.7 1.7	5110	02S/05E-18M02 H	22.5	10/23/84 03/27/85	4.2 4.0	18.3 16.5	5001
03N/05E-24L01 H	8.0	12/18/84 03/13/85	10.0 10.4	-2.0 -2.4	5050	02S/05E-23M01 H	46.0	10/23/84 04/30/85	7.3 5.8	38.7 38.2	5001
04N/05E-01F11 H	16.6	10/03/84 01/08/85	2.8 2.6	13.8 14.0	8201	02S/05E-24M01 H	41.0	10/11/84 03/12/85	40.5(8) 33.5(8)	-8.5 7.5	5110
04N/05E-02G11 H	17.6	10/03/84 01/08/85	7.5 8.4	10.1 9.0	8201	02S/05E-24M01 H	44.0	10/04/84 04/30/85	61.0 NM-1	-17.0	5001
04N/05E-03J02 H	7.8	10/18/84 03/14/85	5.0 3.0	2.8 4.6	5110	02S/05E-29J02 H	47.0	10/24/84 03/27/85	47.0 52.0	.0 -3.9	5001
04N/05E-05M01 H	4.0	10/18/84 03/14/85	5.5 4.5	-1.5 -.5	5110	02S/05E-26001 H	64.0	10/11/84 03/12/85	11.7 11.7	52.3 52.3	5110
04N/05E-09N01 H	.0	10/18/84 03/14/85	4.3 2.3	-4.3 -2.3	5110	02S/05E-28P01 H	72.0	10/11/84 03/12/85	14.3 25.0	53.5 47.0	5110
04N/05E-10A01 H	6.3	10/18/84 03/14/85	9.8 10.6	-3.5 -4.5	5110	02S/05E-31E01 H		10/23/84 03/27/85	NRV NRV		5001
04N/05E-11J11 H	13.7	10/03/84 01/08/85	10.5 8.4	5.2 7.3	8201	02S/05E-31M01 H	70.0	10/03/84 03/27/85	9.4 11.9	60.6 58.1	5001
04N/05E-17J02 H	.6	10/02/84 03/13/85	8.8 6.3	-6.2 -5.7	5050	02S/05E-32A01 H	75.0	10/23/84 03/27/85	18.9 21.2	57.1 54.8	5001
04N/05E-22A01 H		10/01/84 03/13/85	NM-7 4.1		5001 5050	02S/05E-36M01 H		10/03/84 03/27/85	NM-4 NM-4		5001
04N/05E-33A04 H	2.0	10/24/84 03/13/85	6.0 5.4	-4.0 -3.4	5050	02S/06E-19M01 H	33.0	10/24/84 03/27/85	13.2 11.4	19.8 21.4	5001
04N/05E-35P12 H	10.6	10/03/84 01/08/85	6.8 13.0	3.8 -2.4	8201	02S/06E-19M01 H	37.9	10/04/84 03/27/85	52.2 35.4	-14.3 2.5	5001
05N/05E-22R01 H	12.0	10/10/84 03/04/85	11.4 10.8	.6 1.2	5001	02S/06E-27E01 H	20.0	10/11/84 03/12/85	7.0 4.0	13.0 16.0	5110
05N/05E-28L03 H	6.0	10/18/84 03/14/85	4.5 4.5	1.5 1.5	5110	02S/06E-30M01 H		10/11/84 03/12/85	NM-4 NM-4		5110
05N/05E-31A03 H	2.0	10/02/84 03/13/85	5.6 3.6	-3.6 -1.6	5050	02S/06E-31E01 H	55.0	10/24/84 03/27/85	6.0 7.1	44.1 47.9	5001
05N/05E-32M01 H	1.5	10/18/84 03/14/85	6.2 4.7	-4.7 -1.2	5110	02S/06E-31J02 H	50.0	10/11/84 03/12/85	5.5 6.0	44.5 44.0	5110
01S/03E-03M01 H	30.0	10/09/84 03/18/85	11.4 11.4	14.6 14.6	5050	02S/06E-31M01 H	64.0	10/11/84 03/12/85	22.0 14.5	42.0 45.5	5110
01S/03E-19A01 H	23.0	10/09/84	4.7	14.3	5050	02S/06E-32N01 H	55.0	10/13/84 04/30/85	71.5 NM-1	-14.5	5001
						03S/05E-04M01 H	114.0	10/11/84 03/12/85	44.5 67.5	69.5 67.9	5110
						03S/05E-09R01 H	152.4	10/23/84 03/17/85	74.1 78.4	75.3 81.0	5001

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
B B-01	SAN JOAQUIN HB SAN JOAQUIN DELTA HU					B B-02	SAN JOAQUIN HB NORTH OIABLO RANGE HU				
035/06E-03F02 M	29.0	10/11/84 03/12/85	12.5 6.0	16.5 23.0	5110	025/04E-23M01 M	112.0	10/23/84 03/27/85	11.7 14.3	100.3 97.7	9001
035/06E-03P01 M	38.5	10/04/84 05/01/85	6.6 2.9	29.9 33.6	5001	025/04E-27J01 M	153.6	10/23/84 03/27/85	137.7 126.7	15.9 26.9	9001
035/06E-04A01 M		10/04/84 05/01/85	NM-2 NM-2		5001	025/04E-28A01 M	178.0	10/23/84 03/27/85	NM-1 173.4		5001
035/06E-04O01 M		10/04/84 05/01/85	DRY DRY		5001	025/04E-28M01 M	198.0	10/23/84 03/27/85	114.2 113.6	151.8 84.2	9001
035/06E-05E01 M	59.0	10/11/84 03/21/85	77.0 44.0	-18.0 15.0	9110	025/04E-33O02 M		10/23/84 03/27/85	NM-1 NM-1		9001
035/06E-03R01 M	56.7	10/04/84 05/01/85	69.0 66.9	-12.3 -10.2	5001	025/04E-33M01 M		10/23/84 03/27/85	NM-8 NM-8		9001
035/06E-06M01 M	75.0	10/04/84 03/27/85	7.4 9.0	67.6 66.0	5001	025/04E-36P01 M	180.0	10/23/84 03/27/85	165.0(3) 150.3(3)	15.0 21.9	9001
035/06E-08A01 M	57.0	10/04/84 05/01/85	18.9 18.4	39.1 38.6	5001	025/05E-31M01 M	130.0	10/23/84 03/27/85	140.4 120.3	-10.4 9.7	9001
035/06E-18R01 M	82.1	10/05/84 04/30/85	12.3 11.8	69.8 70.3	5001	035/05E-06A02 M	111.0	10/23/84 03/27/85	49.6 33.3	62.4 37.3	9001
035/06E-18M02 M	99.3	10/05/84 04/30/85	13.2 10.2	86.1 89.1	5001	035/05E-07R01 M		10/23/84 03/27/85	NM-8 NM-7		9001
035/06E-27M01 M	113.0	10/11/84 03/12/85	29.5 33.0	83.3 80.0	5110	035/05E-08O02 M	177.0	10/23/84 03/27/85	109.9 112.9	67.1 64.1	9001
035/06E-28F03 M	116.4	10/04/84 05/01/85	25.3 NM-2	91.1	5001	035/05E-15M01 M	142.9	10/05/84 03/27/85	42.0 35.2	100.9 87.7	9001
035/06E-28M01 M	144.8	10/04/84 05/01/85	61.0 62.3	83.8 82.3	5001	035/05E-17R01 M	212.0	10/23/84 03/27/85	241.4 NM-3	-29.4	9001
035/06E-30O01 M	137.4	10/03/84 04/30/85	66.3 64.6	91.1 92.8	5001	035/05E-23R01 M	124.0	10/23/84 03/27/85	34.3 36.3	89.7 87.7	9001
035/07E-06O01 M	26.0	10/17/84 03/14/85	6.6 9.3(4)	19.4 16.7	5050	035/05E-25O01 M	207.0	10/05/84 04/30/85	111.6 114.5(6)	95.4 92.5	9001
						035/05E-26K01 M	212.1	10/23/84 03/27/85	120.2 116.8	91.9 95.3	9001
						035/05E-26R01 M	242.0	10/23/84 03/27/85	177.7 183.1	64.3 38.9	9001
						035/06E-32E01 M	205.0	10/23/84 05/01/85	113.6 93.8	86.4 106.2	9001
						035/06E-32G01 M	177.0	10/23/84 05/01/85	96.6 133.3	80.4 43.7	9001

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
R 8-03 8-03-A 8-03-A2	SAN JOAQUIN M8 NORTH VALLEY FLOOD MU LOWER COSUMES-DRY H4 HERALD M5A					R 8-03 8-03-A 8-03-A2	SAN JOAQUIN M8 NORTH VALLEY FLOOD MU LOWER COSUMES-DRY H4 HERALD M5A				
05H/08E-24H01 M	208.9	10/23/84 11/10/84 12/11/84 01/22/85 02/19/85 03/11/85 04/10/85 05/14/85 06/14/85 07/17/85 08/13/85 09/16/85	177.4 177.5 177.4 178.2 176.3 177.8 177.9 177.9 177.9 176.4 178.2 174.4 178.4	31.5 31.4 31.3 30.7 32.6 31.1 31.0 31.0 30.5 30.7 30.5 30.5	R201	06H/06E-23C01 M	52.0	03/13/85	69.1	-17.1	4202
						06H/06E-25001 M	60.0	10/17/84 03/26/85	97.3 98.6(1)	-37.3 -38.6	5001
						06H/06E-28C02 M	40.0	03/22/85	46.9(1)	-6.9	5050
						06H/06E-29K01 M	33.0	03/22/85	39.3	-6.3	4050
						06H/06E-33J02 M	45.8	10/29/84 11/27/84 12/18/84 01/25/85 02/22/85 03/25/85 04/29/85 05/20/85 06/27/85 07/26/85 08/22/85 09/24/85	61.8 61.1 60.7 60.3 59.9 59.6 61.0 63.0 65.2 66.2 66.3 65.1	-16.0 -15.3 -14.9 -14.5 -14.1 -13.0 -13.2 -17.2 -19.4 -20.4 -20.5 -19.3	5050
05H/08E-27H12 M	164.5	10/23/84 11/15/84 12/07/84 01/22/85 02/21/85 03/07/85 04/10/85 05/20/85 06/11/85 07/17/85 08/13/85 09/25/85	160.4 162.0 170.6 159.9 162.6 169.3 170.7 161.9 163.9 164.3 166.6 160.6	3.7 2.5 -6.3 -4.6 1.9 -4.8 -6.2 2.6 -6 -2 3.9 3.9	8201	06H/06E-33L01 M	35.6	10/04/84 03/34/85 09/18/85	54.4 48.4 57.4	-18.8 -12.8 -12.6	5050
05H/08E-31P01 M	137.0	10/15/84 03/12/85	153.3(8) 147.3(8)	-16.3 -10.3	5110	06H/06E-33002 M	39.7	10/17/84 03/26/85	61.2 62.4	-25.5 -16.7	5001
05H/08E-32R11 M	162.1	10/23/84 01/22/85	175.0 169.6	-12.9 -7.7	8201	06H/06E-34P01 M	46.0	10/17/84 03/25/85	76.6 70.6	-30.6 -24.6	5001
05H/08E-34G11 M	224.4	10/23/84 11/15/84 12/07/84 01/22/85 02/21/85 03/07/85 04/16/85 05/20/85 06/11/85 07/19/85 08/13/85 09/25/85	221.7 MM-1 224.6 220.4 220.3 226.2 MM-1 220.1 220.2 220.4 222.4 MM-1	2.7 -2 4.0 4.1 -1.8 4.3 4.2 4.0 1.6	8201	06H/07E-04J01 M	115.0	10/17/84 03/27/85	124.0 117.6	-9.0 -2.6	5001
						06H/07E-08R01 M	105.0	03/22/85	123.7	-18.7	
						06H/07E-11A02 M	116.0	10/12/84 03/07/85	133.9 138.5	-17.9 -22.5	5001
						06H/07E-14A01 M	110.0	10/12/84 03/07/85	131.5 126.0	-21.5 -16.0	5001
						06H/07E-15K01 M	107.0	10/18/84 03/22/85	138.6 133.2	-31.6 -26.2	5001
05H/08E-34O11 M	213.8	10/23/84 01/22/85	213.3 211.2	.5 2.6	8201	06H/07E-19A01 M	71.0	03/22/85	96.4	-25.4	5050
05H/08E-35X12 M	188.6	10/23/84 11/15/84 12/11/84 01/22/85 02/21/85 03/07/85 04/16/85 05/20/85 06/11/85 07/17/85 08/12/85 09/25/85	163.0 162.9 162.9 161.0 MM-1 163.2 162.8 163.0 163.0 163.1 163.2 163.2	25.6 25.7 25.6 25.6 25.4 25.8 25.6 25.6 25.6 25.4 25.4 25.4	8201	06H/07E-26E01 M	74.5	10/17/84 10/28/84 11/27/84 12/18/84 01/25/85 02/26/85 03/06/85 03/25/85 04/29/85 05/28/85 06/25/85 07/26/85 08/22/85 09/24/85	112.2 111.7 108.2 107.1 104.9 103.2 101.4 102.4 103.7 110.0 114.6 118.2 118.1 113.2	-37.7 -4.7 -3.2 -2.1 -1 -28.9 -2.6 1.3 -3.0 -9.6 -13.2 -13.1 -10.2	5001
05H/09E-20F01 M		10/23/84 01/23/85 04/10/85 07/19/85	DRY DRY DRY DRY		8201	06H/07E-32P01 M	69.0	03/22/85	99.3	-30.3	5050
						06H/07E-34N01 M	86.0	03/11/85	111.0	-25.0	5050
05H/09E-30C11 M	249.2	10/23/84 11/16/84 12/11/84 01/23/85 02/19/85 03/11/85 04/10/85 05/06/85 06/14/85 07/19/85 08/12/85 09/16/85	88.3 88.5 88.3 87.2 87.2 87.2 87.1 MM-1 87.2 87.2 MM-1 MM-1	160.9 160.7 160.9 162.0 162.0 162.0 162.1 162.0 162.0 162.0	8201	06H/08E-15J01 M	214.0	10/16/84	136.3	77.7	5108
						06H/08E-21P03 M	160.0	03/11/85	151.7	8.3	5050
						06H/08E-30R01 M	134.3	03/11/85	142.8	-8.5	5050
						06H/08E-31E02 M	193.0	10/12/84 03/11/85	199.8 196.8	-6.8 -3.8	5050
						06H/08E-34E01 M	256.0	10/12/84 03/11/85	203.5 204.7	30.5 51.3	5050
05H/09E-30M11 M	245.7	10/23/84 11/16/84 12/11/84 01/23/85 02/19/85 03/11/85 04/10/85 05/06/85 06/14/85 07/19/85 08/12/85 09/16/85	98.3 98.4 98.4 98.4 98.4 98.2 98.2 98.1 MM-1 87.2 87.2 MM-1 MM-1	147.4 147.3 149.3 149.3 149.3 149.5 151.5 149.6 149.7 149.7 149.7	82C1	07H/06E-23P01 M	77.0	10/29/84 11/27/84 12/15/84 01/25/85 02/26/85 03/25/85 04/29/85 05/28/85 07/26/85 08/22/85 09/24/85	89.0 87.9 87.4 86.7 86.2 86.1 86.7 86.4 91.7 94.8 98.2 93.0	-12.0 -10.9 -10.6 -9.7 -9.2 -9.1 -9.7 -12.4 -14.7 -17.8 -18.2 -16.0	5050
06H/06E-01G01 M	76.5	10/17/84 03/06/85	79.2 73.8	-2.7 2.7	5001	07H/06E-25R01 M	84.0	10/10/84 03/26/85	82.8 76.0	1.2 8.0	5001
06H/06E-11J03 M	65.0	10/17/84 03/06/85	75.8 68.0	-10.8 -3.0	5001	07H/06E-26Q01 M	70.0	01/21/85	59.5	10.5	5108
06H/06E-13J01 M	65.0	10/17/84 03/06/85	89.6 80.6	-24.6 -15.6	5001	07H/06E-36P02 M	75.0	10/17/84 03/25/85	64.5 64.7	10.5 10.3	5001
06H/06E-16E01 M	50.5	10/10/84 03/05/85	50.8 47.4(1)	-3.3 2.7	5001	07H/07E-02C01 M	102.5	10/12/84 03/27/85	47.2 43.0	55.3 59.5	5001
06H/06E-22C01 M	50.0	03/22/85	50.1	-1.1	5050	07H/07E-03R01 M	100.0	10/15/84 03/07/85	48.6 46.9	51.4 53.1	5001
06H/06E-23C01 M	52.0	10/15/84 10/17/84 03/06/85	72.5 72.5 69.0	-20.5 -20.5 -17.0	4202 5001	07H/07E-04J01 M	133.5	10/12/84 03/27/85	91.1 87.9	42.4 45.6	5001

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
A 8-03 8-03.8	SAN JOAQUIN RR NORTH VALLEY FLOOD HU LOWER MODELUMME HA					A 8-03 8-03.8	SAN JOAQUIN RR NORTH VALLEY FLOOD HU LOWER MODELUMME HA				
03M/06E-01013 M	93.1	07/03/85 08/03/85 09/08/85	45.3 46.4 46.4	7.8 6.7 6.7	8201	03M/06E-22012 M	29.6	10/02/84 01/24/85	45.2 41.4	-15.6 -11.8	8201
03M/06E-03412 M	50.3	10/02/84 11/07/84 12/04/84 01/04/85 02/11/85 03/04/85 04/04/85 05/05/85 06/05/85 07/08/85 08/05/85 09/10/85	33.1 42.2 33.5 43.8 35.9 44.4 42.5 43.7 44.2 45.8 45.2 43.5	17.2 6.1 16.8 6.9 14.4 9.9 7.8 6.6 6.1 4.5 4.1 6.8	8201	03M/06E-23413 M	38.8	10/32/84 01/03/85	51.0 46.8	-12.2 -10.0	8201
						03M/06E-24003 M	39.0	03/15/85	49.7	-10.7	9050
						03M/06E-25C11 M	39.6	10/05/84 01/10/85	53.9 50.3	-14.3 -10.7	8201
						03M/06E-25H15 M	41.1	10/35/84 11/37/84 12/35/84 01/10/85 02/14/85 03/35/85 04/04/85 05/30/85 06/06/85 07/10/85 08/06/85 09/11/85	56.7 56.0 55.5 54.5 53.2 56.2 55.8 44.1 57.9 44.1 44.1 60.7	-17.6 -14.9 -14.4 -13.4 -12.1 -15.2 -14.7 -16.8 -19.6	8201
03M/06E-03113 M	40.5	10/02/84 11/07/84 12/04/84 01/04/85 02/11/85 03/04/85 04/04/85 05/05/85 06/05/85 07/08/85 08/05/85 09/10/85	34.5 33.2 33.3 35.0 33.4 33.7 34.0 34.4 37.2 39.0 39.6 38.9	5.9 7.3 7.2 5.5 7.1 6.8 6.5 6.1 3.3 1.5 .9 1.6	8201	03M/06E-25R03 M	39.6	10/15/84 03/12/85	44.8 54.3	-19.2 -14.7	9050
03M/06E-04C01 M	35.0	03/13/85	23.9	11.1	9050	03M/06E-26H11 M	29.4	10/32/84 01/04/85	42.5 41.8	-13.1 -12.4	8201
03M/06E-04P12 M	36.2	10/02/84 01/08/85	39.0 32.0	-2.9 4.2	8201	03M/06E-26P02 M	32.4	10/18/84 03/13/85	45.1 44.1	-12.7 -11.7	9110
03M/06E-05C12 M	29.5	10/02/84 01/04/85	12.4 14.1	10.1 14.4	8201	03M/06E-27E01 M	25.3	04/03/85	39.5	-14.2	9110
03M/06E-06D12 M	23.1	10/02/84 11/07/84 12/04/84 01/08/85 02/11/85 03/04/85 04/04/85 05/05/85 06/05/85 07/08/85 08/05/85 09/10/85	11.1 11.5 11.3 11.3 11.5 11.5 11.5 11.2 11.0 13.5 14.0 12.1	12.0 11.6 11.8 11.8 11.6 11.6 11.6 12.1 9.5 9.1 11.0	8201	03M/06E-28012 M	24.1	10/02/84 01/34/85	43.7 38.7	-19.6 -14.6	8201
						03M/06E-29C01 M	17.2	10/19/84 03/13/85	55.5 53.5	-38.3 -36.3	9110
						03M/06E-30R01 M	12.0	10/19/84 03/13/85	35.0(6) 26.0(6)	-23.0 -14.0	9110
						03M/06E-32J13 M	18.8	10/32/84 01/03/85	41.0 35.0	-22.2 -16.0	8201
03M/06E-07013 M	21.0	10/03/84 01/08/85	15.3 15.0	5.7 6.0	8201	03M/06E-32R01 M	19.0	10/19/84 03/13/85	40.0(6) 44.0	-25.0	9110
03M/06E-07403 M	23.4	10/18/84 03/13/85	27.4(4) 23.4(4)	-4.0 0	9110	03M/06E-34E13 M	23.2	10/02/84 01/34/85	40.6 39.0	-17.4 -15.8	8201
03M/06E-09F06 M	32.0	10/18/84 03/13/85	34.0 32.0	-2.0 0	9110	03M/06E-35P02 M	24.4	10/15/84 03/12/85	44.2 44.4	-17.8 -16.0	9050
03M/06E-09H11 M	27.6	10/02/84 01/09/85	36.0 32.6	-8.4 -5.0	8201	03M/06E-35R13 M	32.2	10/32/84 01/03/85	50.0 46.3	-17.8 -16.1	8201
03M/06E-12032 M	49.1	10/02/84 11/07/84 12/04/84 01/03/85 02/11/85 03/04/85 04/04/85 05/05/85 06/05/85 07/08/85 08/05/85 09/10/85	40.9 43.1 44.2 45.1 46.1 46.2 46.7 46.7 43.6 44.1 45.8 45.6 51.4	8.2 6.0 4.9 4.0 3.0 2.9 2.4 2.4 5.5 5.0 3.3 2.5 -2.3	8201	03M/07E-02C02 M	84.6	10/17/84 11/06/84 12/34/84 01/17/85 02/13/85 03/35/85 04/04/85 05/30/85 06/05/85 07/10/85 08/36/85 09/10/85	59.7 59.1 59.0 59.0 59.2 59.2 59.4 60.4 60.0 62.6 62.9 62.9	24.9 25.3 25.6 25.6 25.4 25.4 25.2 24.2 23.7 22.0 21.7	8201
03M/06E-13R08 M	45.6	10/15/84 03/21/85	54.8 50.9	-9.2 -5.3	9050	03M/07E-02G03 M	84.0	10/16/84 03/21/85	86.2 80.3	-2.2 3.7	9090
03M/06E-14412 M	33.7	10/02/84 01/03/85	45.6 42.7	-11.9 -9.0	8201	03M/07E-02001 M	82.1	10/17/84 01/17/85	89.9 85.1	-7.8 -3.0	8201
03M/06E-15812 M	33.3	10/02/84 01/04/85	44.1 40.3	-10.8 -7.2	8201	03M/07E-03411 M	81.7	10/11/84 01/15/85	53.2 51.9	28.5 29.8	8201
03M/06E-17011 M	23.8	10/02/84 11/07/84 12/04/84 01/04/85 02/11/85 03/04/85 04/04/85 05/05/85 06/05/85 07/08/85 08/05/85 09/10/85	30.9 24.6 24.8 30.9 27.4 27.0 26.5 27.3 27.3 27.0 27.9 34.8	-7.1 -5.8 -5.0 -7.1 -3.6 -3.2 -2.7 -3.5 -3.2 -14.1 -10.7	8201	03M/07E-03801 M	74.8	10/14/84 03/13/85	93.6(8) 74.6(8)	-18.8 2	9110
						03M/07E-04001 M		10/10/84 01/14/85	44.0 44.0		8201
						03M/07E-05012 M	62.7	10/10/84 01/14/85	34.9 29.6	27.8 33.1	8201
						03M/07E-06H11 M	54.7	10/04/84 01/10/85	37.7 37.4	17.0 17.3	8201
03M/06E-20C13 M	18.6	10/03/84 01/09/84 01/04/85	34.8 28.5 34.0	-16.2 -9.9 -16.0	8201	03M/07E-06004 M	57.0	10/18/84 03/13/85	51.0 46.0	6.0 11.0	9110
03M/06E-20001 M	18.0	04/03/85	34.0	-16.0	9110	03M/07E-08012 M	63.4	10/30/84 11/28/84 12/05/84 01/14/85 02/14/85 03/35/85 04/04/85 05/30/85 06/05/85 07/10/85	57.6 57.4 56.1 54.1 53.7 57.0 56.0 67.5 44.1 80.0	5.8 6.0 5.3 9.3 9.7 6.4 7.4 -4.1 -16.6	8201
03M/06E-21811 M	24.8	10/02/84 01/04/85	41.2 36.5	-16.4 -11.7	8201						
03M/06E-22001 M	27.0	10/19/84 03/13/85	48.0(4) 42.0(4)	-21.0 -15.0	9110						

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
8 8-03 8-03.8	SAN JOAQUIN HB NORTH VALLEY FLOOR HU LOWER MOKELUMNE HA					8 8-03 8-03.8	SAN JOAQUIN HB NORTH VALLEY FLOOR HU LOWER MOKELUMNE HA				
03N/07E-08B12 M	63.4	08/06/85 09/11/85	MM-1 57.9	-4.5	8201	03N/07E-23011 M	70.4	02/14/85 03/05/85 04/04/85 05/08/85 06/06/85 07/10/85 08/06/85 09/11/85	84.9 80.6 83.0 87.5 88.8 87.4 89.1 90.0	-14.5 -20.2 -12.6 -17.1 -18.4 -17.0 -18.7 -18.4	8201
03N/07E-08E02 M	60.0	10/18/84 03/12/85	69.5 66.5	-0.5 -0.5	5110						
03N/07E-09C01 M	68.3	10/18/84 03/13/85	84.0 72.0	-15.7 -3.7	5110						
03N/07E-09C03 M	69.6	10/10/84 01/14/85	89.4 65.4	.2 4.2	8201	03N/07E-23C02 M	72.0	10/18/84 03/13/85	88.0 77.0	-16.0 -9.0	5110
03N/07E-09P01 M	64.3	10/10/84 01/14/85	69.7 65.1	-5.4 -8.8	8201	03N/07E-23F11 M	68.0	10/11/84 01/14/85	87.2 82.3	-19.2 -14.3	8201
03N/07E-10L04 M	72.8	10/11/84 11/08/84 12/05/84 01/13/85 02/14/85 03/05/85 04/04/85 05/09/85 06/05/85 07/10/85 08/06/85 09/11/85	78.9 77.2 75.9 74.6 72.9 74.5 74.1 MM-1 MM-1 MM-1 MM-1 MM-1 82.9	-6.1 -4.4 -3.1 -1.6 -1.1 -1.7 -1.3 -15.0 -10.1	8201	03N/07E-23K11 M	67.0	10/11/84 11/07/84 12/05/84 01/13/85 02/14/85 03/05/85 04/04/85 05/08/85 06/06/85 07/10/85 08/06/85 09/11/85	90.3 85.1 84.0 82.7 MM-1 83.0 82.7 82.9 84.6 88.1 90.0 91.1	-23.3 -16.1 -17.0 -15.7 -16.0 -15.9 -15.7 -17.6 -23.0 -24.1	8201
03N/07E-12P01 M	77.0	03/20/85	87.6	-10.6	5050	03N/07E-25C01 M	70.1	10/22/84 03/25/85	107.8(3) 104.8(3)	-37.7 -34.7	5110
03N/07E-13A11 M	82.3	10/17/84 01/17/85	102.1 94.5	-19.8 -12.2	8201	03N/07E-25F11 M	71.7	10/10/84 01/14/85	95.5 86.2	-23.8 -16.5	8201
03N/07E-14B01 M	75.9	10/17/84 01/17/85	89.4 82.5	-13.5 -8.6	8201	03N/07E-25G01 M	75.7	10/22/84 03/15/85	106.0(6) 102.0(6)	-30.3 -26.3	5110
03N/07E-14M11 M	75.3	10/10/84 01/14/85	92.6 87.9	-17.3 -12.6	8201	03N/07E-26G11 M	66.9	10/11/84 01/15/85	92.0 91.7	-25.1 -24.8	8201
03N/07E-14O11 M	70.2	10/11/84 11/07/84 12/05/84 01/14/85 02/14/85 03/05/85 04/04/85 05/08/85 06/06/85 07/10/85 08/06/85 09/11/85	87.7 84.9 83.0 82.0 80.7 80.8 84.9 86.1 86.5 90.0 96.2 94.9	-17.5 -24.7 -12.8 -13.0 -10.3 -26.0 -24.7 -25.9 -14.3 -19.8 -26.0 -24.7	8201	03N/07E-26G12 M	65.9	10/10/84 11/07/84 12/05/84 01/14/85 02/14/85 03/05/85 04/04/85 05/08/85 06/06/85 07/10/85 08/06/85 09/11/85	86.8 83.8 82.7 80.6 81.4 83.3 MM-1 83.0 84.5 MM-1 88.6 88.8	-20.9 -17.9 -16.8 -16.7 -15.5 -17.4 -17.1 -16.6 -29.7 -23.9	8201
03N/07E-17A31 M	60.1	10/09/84 01/14/85	65.1 59.7	-5.0 4.4	8201	03N/07E-27F13 M	81.1	10/10/84 11/37/84 12/05/84 01/14/85 02/14/85 03/05/85 04/04/85 05/08/85 06/06/85 07/10/85 08/06/85 09/11/85	82.5 80.1 78.9 77.6 76.8 76.1 75.2 76.0 89.5 89.3 89.3 89.3	-21.4 -19.0 -17.4 -16.5 -15.7 -15.0 -14.1 -16.9 -28.4 -82.2 -24.2	8201
03N/07E-17O11 M	57.2	10/09/84 01/14/85	59.2 54.0	-2.0 2.4	8201						
03N/07E-17K02 M	57.0	10/18/84 01/13/85	73.3(8) 62.5(8)	-16.3 -5.3	5110						
03N/07E-18O12 M	50.0	10/18/84 03/13/85	55.6 52.1	-5.6 -2.1	5110						
03N/07E-18G02 M	53.8	10/09/84 01/14/85	57.2 56.4	-3.4 -2.6	8201						
03N/07E-18M11 M	48.0	10/05/84 11/07/84 12/04/84 01/10/85 02/14/85 03/05/85 04/04/85 05/09/85 06/06/85 07/10/85 08/06/85 09/11/85	59.1 54.5 53.6 52.6 52.1 52.2 53.8 54.5 MM-1 68.7 70.3 84.4	-11.1 -8.5 -5.6 -4.6 -4.1 -4.2 -5.8 -11.5 -20.7 -22.3 -16.4	8201	03N/07E-28K11 M	56.2	10/09/84 11/37/84 12/05/84 01/11/85 03/05/85 04/04/85 05/08/85 06/06/85 07/10/85 08/06/85 09/11/85	79.3 77.4 76.3 74.6 MM-1 72.6 72.5 72.4 75.9 76.9 76.6 79.6	-23.1 -21.2 -20.1 -18.4 -18.4 -16.4 -16.3 -16.2 -17.7 -20.7 -22.4 -23.6	8201
03N/07E-19M02 M	42.0	10/13/84 03/12/85	58.8 53.3	-16.8 -11.3	5050	03N/07E-29P01 M	47.5	10/09/84 01/11/85	76.0 68.4	-28.5 -20.9	8201
03N/07E-19O12 M	45.4	10/09/84 01/11/85	64.0 56.4	-18.6 -11.0	8201	03N/07E-30O12 M	42.5	10/05/84 01/10/85	59.6 54.0	-17.1 -11.5	8201
03N/07E-20C11 M	54.2	10/09/84 01/11/85	67.8 60.6	-13.6 -8.4	8201	03N/07E-31B01 M	41.0	10/18/84 03/13/85	68.5 57.5	-27.5 -16.5	5110
03N/07E-20P02 M		10/18/84 03/19/85	MM-5 MM-5		5110	03N/07E-32O12 M	49.0	10/09/84 01/11/85	70.7 65.2	-21.7 -16.2	8201
03N/07E-22C11 M	66.4	10/11/84 11/07/84 12/05/84 01/13/85 02/14/85 03/05/85 04/04/85 05/09/85 06/05/85 07/10/85 08/06/85 09/11/85	82.4 79.7 78.7 77.1 76.2 75.9 74.8 88.2 79.3 88.9 87.3 84.7	-16.0 -11.3 -12.3 -10.7 -0.6 -0.5 -8.4 -21.8 -13.1 -20.5 -20.9 -18.3	8201	03N/07E-33E11 M	51.3	10/09/84 01/11/85	77.9 70.4	-26.6 -19.1	8201
						03N/07E-34J11 M	60.5	10/10/84 01/14/85	88.5 77.5	-28.0 -17.0	8201
						03N/07E-35C02 M	61.2	10/22/84 03/15/85	120.0(6) MM-9	-56.8	5110
						03N/07E-35L01 M	64.0	10/24/84 03/15/85	99.3(8) 90.5(8)	-35.3 -26.5	5110
03N/07E-25B11 M	70.4	10/13/84 11/07/84 12/05/84 01/14/85	95.7 87.9 87.2 87.9	-25.3 -17.5 -16.8 -17.1	8201	03N/07E-36K02 M		10/28/84 03/28/85	MM-3 MM-3		5110

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS											
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
8 B-03 B-03-B	34M JOAQUIN HB NORTH VALLEY FLOOR HU LOWER MOKELUMNE NA					8 B-03 B-03-B	34M JOAQUIN HB NORTH VALLEY FLOOR HU LOWER MOKELUMNE NA				
03N/08E-03R01 M		10/22/84 03/28/85	NM-9 NM-9		5110	04N/06E-11801 M		47.0 03/04/85	63.1 54.7	-16.1 -7.7	5001
03N/08E-04001 M	120.6	10/17/84 01/17/85	133.3 131.9	-14.7 -11.3	8201	04N/06E-12C04 M	35.0	10/18/84 03/14/85	71.0(4) 66.9	-16.0 -11.9	5110
03N/08E-03011 M	105.2	10/17/84 01/17/85	117.0 112.0	-11.8 -6.8	8201	04N/08E-12011 M	52.5	10/04/84 01/10/85	66.0 63.9	-13.5 -11.4	#201
03N/08E-03K11 M	107.5	10/17/84 01/17/85	128.2 120.2	-20.7 -12.7	8201	04N/06E-12N02 M	52.0	10/18/84 03/14/85	90.6 59.6	-7.8 -3.8	5110
03N/08E-04E01 M	96.0	10/17/84 01/17/85	66.6 64.6	29.4 31.4	8201	04N/08E-12R11 M	58.0	10/04/84 11/07/84 12/04/84 01/10/85	73.6 72.1 71.3 69.0	-15.6 -14.1 -13.3 -11.0	8201
03N/08E-07002 M	86.0	03/20/85	97.2	-11.2	5050			02/11/85 03/03/85 04/04/85 05/09/85	67.6 66.6 65.9 65.8	-9.6 -8.6 -7.5 -7.6	
03N/08E-08E01 M	95.8	10/22/84 03/23/85	122.3(3) 109.3(3)	-26.5 -13.5	5110			06/03/85 07/09/85 08/06/85 09/25/85	MM-1 72.2 74.2 77.2		
03N/08E-09011 M	126.3	10/17/84 01/17/85	146.7 144.1	-20.4 -17.8	8201						
03N/08E-11M11 M	140.4	10/17/84 01/17/85	154.8 160.8	-14.4 -20.4	8201	04N/06E-13F01 M	53.4	10/04/84 01/10/85	82.1 58.4	-8.7 -9.0	8201
03N/08E-11M02 M	156.0	03/21/85	156.6	-6	5050	04N/08E-13G01 M		10/18/84 03/14/85	NM-4 NM-4		5110
03N/08E-12F11 M	181.7	10/17/84 01/17/85	188.7 186.0	-7.0 -6.3	8201	04N/08E-13G01 M		10/18/84 03/14/85	NM-4 NM-4		5110
03N/08E-17R01 M	95.9	10/17/84 03/17/85	116.2 112.9	-22.3 -17.0	8201	04N/08E-14M11 M	43.7	10/04/84 01/29/85	42.7 46.7	1.0 -3.0	#201
03N/08E-17011 M	96.6	10/10/84 01/14/85	122.3 113.2	-25.7 -18.6	8201	04N/08E-15B02 M	40.0	10/18/84 03/14/85	39.7 35.7	.3 4.3	5110
03N/08E-19C01 M	84.5	10/23/84 04/11/85	NM-3 104.3	-19.8	5110	04N/08E-16A11 M	37.1	10/04/84 01/09/85	35.0 32.3	2.1 4.8	8201
03N/08E-19M12 M	73.6	10/10/84 01/14/85	100.3 94.4	-24.5 -16.6	8201	04N/08E-16C11 M	31.4	10/24/84 01/30/85	29.0 23.3	6.4 8.1	8201
03N/08E-20K01 M		10/10/84 03/14/85	DRY DRY		8201	04N/08E-16K11 M	35.4	10/04/84 01/29/85	26.3 25.6	9.1 9.8	8201
03N/08E-22A01 M		10/22/84 03/25/85	NM-1 NM-9		5110	04N/08E-17A02 M	30.5	10/03/84 01/09/85	20.3 20.4	10.2 10.1	8201
03N/08E-26001 M	130.0	10/29/84 11/29/84 12/26/84 01/29/85 02/26/85 03/29/85 04/25/85 05/24/85 06/24/85	149.7 146.0 147.5 145.6 146.1 144.1 146.2 151.2 147.7	-19.7 -18.0 -17.3 -15.6 -16.1 -14.1 -16.2 -21.2 -17.7	5050	04N/08E-17001 M		10/18/84	NM-6		5110
						04N/08E-18E15 M	20.4	10/23/84 01/09/85	16.3 13.4	4.1 7.0	8201
						04N/08E-18R12 M	26.6	10/03/84 01/09/85	22.7 14.3	4.1 12.5	8201
						04N/08E-19F01 M	21.8	09/13/83	10.9	10.9	5050
03N/08E-27R01 M	126.4	10/22/84 03/25/85	135.3(6) 126.6(6)	-8.9 -4	5110	04N/08E-19R12 M	25.4	10/02/84 11/07/84 12/04/84 01/09/85 02/11/85 03/04/85 04/04/85 05/09/85	11.6 12.4 12.4 13.0 13.0 12.8 12.0 10.8	13.8 13.0 12.4 12.4 11.1 12.6 13.4 14.6	8201
03N/08E-29K11 M		10/10/84 01/14/85	DRY DRY		8201						
03N/08E-30M01 M		10/23/84	NM-8		5110						
03N/08E-31E11 M	76.5	10/10/84 01/14/85	38.2 46.3	38.3 30.2	8201	04N/08E-21A01 M	37.6	10/04/84 01/09/85	24.9 24.0	12.7 13.6	8201
03N/09E-05001 M		10/15/84	NM-3		5110	04N/08E-21001 M	31.0	03/13/85	19.4	11.6	5050
04N/05E-13C12 M	17.7	10/03/84 01/06/85	13.3 11.9	4.4 5.8	8201	04N/08E-21002 M	33.0	10/03/84 01/09/85	20.7 20.6	12.3 12.4	8201
04N/05E-13H01 M	19.6	10/18/84 03/14/85	15.1(6) 11.6(6)	4.5 8.0	5110	04N/08E-22F02 M	38.4	10/04/84 01/09/85	29.6 26.1	8.8 10.3	8201
04N/05E-24A14 M	21.5	10/03/84 01/08/85	15.1 13.2	6.4 8.3	8201	04N/08E-22M01 M	38.2	10/18/84 03/14/85	24.5 23.5	13.7 12.7	5110
04N/05E-26K02 M	13.0	10/18/84 03/14/85	9.0 7.0	4.0 6.0	5110	04N/08E-23012 M	45.3	10/24/84 01/09/85	39.4 52.6	9.9 -7.3	#201
04N/05E-26011 M	14.8	10/03/84 01/08/85	10.1 8.1	4.7 6.7	8201	04N/08E-23M01 M	45.2	10/02/84 11/07/84 12/04/84 01/09/85 02/11/85 03/04/85 04/04/85 05/09/85 06/25/85 07/09/85 08/25/85 09/10/85	37.4 36.8 35.3 34.2 33.4 33.7 33.7 36.0 38.2 38.2 41.4 41.4	7.8 8.4 9.0 11.0 11.4 11.5 11.5 9.2 7.0 3.6	8201
04N/05E-36C01 M	16.2	10/03/84 01/08/85	10.7 10.0	7.3 8.2	8201						
04N/05E-36H03 M	21.0	10/18/84 03/14/85	11.0 9.9	10.0 11.9	5110						
04N/06E-02R11 M	52.3	10/04/84 01/10/85	67.1 62.2	-14.8 -9.9	8201						
04N/06E-03A12 M	46.3	10/04/84 01/09/85	57.4 58.9	-9.1 -10.6	8201						
04N/06E-04A11 M	32.2	10/04/84 01/10/85	34.0 33.0	-21.8 -2.8	8201						
04N/06E-05H11 M		10/04/84 01/10/85	NM-9 NM-9		8201	04N/08E-24011 M	33.2	10/04/84 01/10/85	51.9 41.0	1.3 2.2	#201
04N/06E-09001 M	30.0	03/22/85	28.6	1.4	5050	04N/08E-24F01 M	35.0	10/18/84 03/14/85	47.0 50.0	6.0 5.0	5110
04N/06E-09R11 M	34.0	10/04/84 01/10/85	42.1 39.0	-8.1 -1.0	8201	04N/06E-25R30 M	57.1	10/24/84	49.8	7.3	8201

TABLE D (CONTINUED)

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND WATER	WATER SURFACE ELEV.	AGENCY
4 S-03 S-03.8	SAN JOAQUIN NB NORTH VALLEY FLOOR HU LOVER MOKELUNNE HA					R S-03 R-03.R	SAN JOAQUIN NB NORTH VALLEY FLOOR HU LOVER MOKELUNNE HA				
04N/06E-25430 M	57.1	01/10/85	47.7	9.4	8201	04N/07E-18330 M	61.4	13/04/84	69.9	-8.5	8201
04N/06E-25801 M	55.0	10/18/84	44.0	11.0	5110	04N/07E-19401 M	62.4	10/18/84	65.0(8)	-2.6	5110
04N/06E-26401 M	51.1	10/03/84	41.1	10.0	8201	04N/07E-19811 M	66.7	10/11/84	69.0	-2.9	8201
04N/06E-27812 M	40.6	10/03/84	27.3	13.3	8201	04N/07E-20M03 M	75.0	03/22/85	72.0	3.0	5050
04N/06E-27002 M	34.5	10/16/84	10.0(6)	24.5	5110	04N/07E-20801 M		10/12/84	08Y		8201
04N/06E-27012 M	46.5	10/03/84	26.2	20.3	8201	04N/07E-21F01 M	78.2	10/18/84	82.0	-3.8	5110
04N/06E-28R12 M		10/03/84	NM-9		A201	04N/07E-22003 M	83.8	10/12/84	79.4	4.4	8201
04N/06E-29A01 M	33.0	10/18/84	NM-9		5110			11/08/84	78.1	5.7	
04N/06E-29M02 M	26.0	10/18/84	19.0(8)	11.0	5110			12/04/84	77.3	6.5	
04N/06E-31A01 M	30.7	10/03/84	16.0	14.7	8201			01/16/85	76.2	7.8	
04N/06E-33R04 M	36.0	03/13/85	20.1	15.9	5050			02/13/85	75.3	8.5	
04N/06E-33013 M	34.4	10/03/84	12.7	21.7	8201	04N/07E-23J12 M	95.2	10/13/84	103.6	-7.4	8201
04N/06E-33R01 M	36.8	10/02/84	20.9	17.9	8201	04N/07E-24P11 M	79.6	10/13/84	75.3	4.3	8201
04N/06E-35011 M	48.5	10/03/84	24.5	24.0	8201			01/17/85	70.3	9.3	
04N/06E-36012 M	49.4	10/02/84	30.6	18.6	8201	04N/07E-25E13 M		13/15/84	08Y		8201
		11/07/84	29.6	19.8				01/17/85	08Y		
		12/04/84	29.5	19.9		04N/07E-25E13 M	89.7	10/15/84	92.3	-3.6	8201
		01/09/85	29.5	19.9				11/08/84	NM-1		
		02/21/85	29.7	19.7				12/04/84	87.6	1.1	
		03/03/85	29.0	19.3				01/17/85	86.2	2.9	
		04/04/85	28.0	20.4				02/13/85	85.3	3.4	
		05/09/85	31.5	17.9				03/04/85	84.8	3.9	
		06/06/85	34.8	14.6				04/02/85	84.3	4.2	
		07/09/85	33.8	13.6				05/07/85	NM-9		
		08/06/85	NM-1					06/03/85	NM-1		
		09/10/85	33.9	13.3		04N/07E-25803 M	63.1	10/13/84	19.9	43.2	8201
04N/07E-04812 M	90.2	10/12/84	116.7	-26.5	8201	04N/07E-26811 M	91.7	10/15/84	90.8	2.9	8201
04N/07E-04912 M	83.4	10/12/84	106.7	-23.3	8201			01/16/85	84.3	9.2	
04N/07E-07A01 M	88.0	10/18/84	88.5	-20.5	5110	04N/07E-27F01 M	81.5	10/12/84	41.4	40.1	8201
04N/07E-07M11 M	67.6	10/04/84	90.1	-22.5	8201			11/08/84	41.4	40.1	
04N/07E-09013 M	77.4	10/12/84	100.3	-22.9	8201			12/04/84	40.0	41.5	
04N/07E-11001 M	101.5	10/13/84	108.9	-7.4	8201			01/16/85	40.8	40.7	
04N/07E-13002 M	107.4	10/15/84	123.0	-13.6	8201			02/13/85	42.9	39.0	
04N/07E-13R11 M	114.3	10/15/84	125.5	-11.2	8201			03/04/85	42.8	38.7	
04N/07E-14E01 M	93.1	10/18/84	113.0	-19.9	5110			04/02/85	43.7	37.8	
04N/07E-14R11 M	94.8	10/15/84	108.8	-14.0	8201			05/07/85	43.5	36.0	
04N/07E-15R12 M	91.8	10/15/84	109.9	-18.1	8201			06/03/85	43.5	36.0	
		11/05/84	109.0	-14.2				07/11/85	43.7	37.8	
		12/05/84	104.4	-12.6				08/07/85	43.3	38.2	
		01/16/85	100.6	-8.8				09/10/85	44.2	37.3	
		02/13/85	99.1	-7.3		04N/07E-28J02 M	74.8	10/18/84	67.5(8)	7.3	5110
		03/04/85	99.8	-8.0				03/12/85	65.5(8)	9.3	
		04/02/85	NM-1			04N/07E-28P11 M	72.0	10/11/84	53.0	19.0	8201
		05/07/85	103.5	-11.7				01/16/85	49.8	22.2	
		06/05/85	107.9	-18.1		04N/07E-29H01 M	70.6	10/12/84	89.3	1.3	8201
		07/11/85	NM-1					11/08/84	84.6	6.0	
		08/07/85	117.9	-26.1				12/04/84	83.4	7.2	
		09/10/85	113.1	-21.3				01/16/85	82.2	8.4	
04N/07E-15002 M	87.9	10/15/84	87.9	.0	8201			02/13/85	81.5	9.1	
04N/07E-16001 M	78.9	10/12/84	93.2	-16.3	8201			03/04/85	81.2	9.4	
04N/07E-17J13 M	74.9	10/11/84	87.4	-12.5	8201			04/02/85	81.2	9.4	
04N/07E-17H01 M	67.0	10/14/84	81.3(8)	-14.3	5110			05/07/85	80.3	4.1	
04N/07E-18M01 M	57.8	03/22/85	61.4	-3.6	5050			06/03/85	NM-1		
								07/11/85	79.4	.2	
								08/07/85	80.2	-9.6	
								09/10/85	71.3	-7.7	
						04N/07E-29M12 M	64.5	10/11/84	59.4	10.1	8201
								01/16/85	50.0	15.5	
						04N/07E-30E04 M	57.1	10/34/84	48.4	8.7	8201
								01/13/85	46.1	11.0	
						04N/07E-31M11 M	45.9	10/04/84	13.0	32.9	8201
								01/13/85	17.1	28.6	
						04N/07E-31031 M	58.9	10/10/84	32.1	26.4	8201
								01/14/85	32.3	26.6	
						04N/07E-32F11 M	66.4	10/11/84	50.4	16.0	8201
								01/16/85	46.2	20.2	
						04N/07E-33A11 M	61.8	10/11/84	35.0	8.8	8201
								01/16/85	47.7	16.1	
						04N/07E-33M01 M	73.4	10/18/84	40.4	33.0	5110
								03/12/85	39.4	34.0	

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
8 8-03 8-03.8	SAN JOAQUIN NB NORTH VALLEY FLOOR HU LOWER MONELUMNE HA					8 8-03 8-03.8	SAN JOAQUIN NB NORTH VALLEY FLOOR HU LOWER MONELUMNE HA				
04N/07E-34F11 M	81.6	10/11/84 11/08/84 12/04/84 01/16/85 02/14/85 03/05/85 04/04/85 05/09/85 06/05/85 07/03/85 08/06/85 09/11/85	18.3 16.4 17.7 18.6 19.9 20.7 20.6 20.6 20.1 20.5 20.6 20.8	43.3 43.2 43.9 43.0 41.7 40.9 41.0 41.0 41.9 41.1 41.0 40.8	9201	04N/08E-12N01 M	113.1	11/15/84 12/14/84 01/25/85 02/20/85 03/08/85 04/10/85 05/16/85 06/12/85 07/18/85 08/16/85 09/20/85	63.3 62.9 62.9 62.7 64.8 61.1 NM-1 66.5 NM-1	49.8 50.2 50.2 50.4 47.3 50.0	#201
04N/07E-34I03 M	82.3	10/11/84 01/16/85	40.1 43.1	42.2 39.2	8201	04N/08E-12P11 M	109.5	10/25/84 11/15/84 12/14/84 01/23/85 02/20/85 03/09/85 04/10/85 05/16/85 06/12/85 07/19/85 08/16/85 09/20/85	59.1 57.7 57.6 57.7 57.3 NM-1 NM-1 61.0 62.9 61.0 NM-1	51.4 51.8 51.9 51.8 52.0	8201
04N/07E-35C11 M	89.2	10/12/84 01/16/85	64.7 61.9	24.5 27.3	8201						
04N/07E-35C13 M		10/15/84 01/16/85	NM-9 DRY		8201						
04N/07E-35C14 M	89.2	10/15/84 01/16/85	83.1 77.6	6.1 11.6	8201						
04N/07E-35E13 M	87.3	10/12/84 01/16/85	83.0 76.2	4.3 11.1	8201	04N/08E-13G12 M	153.8	10/25/84 11/14/84 12/14/84 01/11/85 02/21/85 03/07/85 04/10/85 05/16/85 06/12/85 07/19/85 08/09/85 09/25/85	111.6 111.5 111.3 111.0 110.8 111.0 110.4 110.4 110.5 133.9 135.5 135.3	42.2 42.3 42.5 42.8 43.0 42.8 43.4 43.4 43.3	8201
04N/07E-35J01 M	87.5	10/17/84 01/17/85	84.4 80.3	3.1 7.2	8201						
04N/07E-36C01 M	60.8	10/16/84 01/17/85	27.5 27.1	33.3 33.7	8201						
04N/07E-36L01 M	90.0	10/15/84 03/12/85	143.5(6) 109.0	-53.5 -19.0	3110						
04N/08E-01K01 M	170.7	10/22/84 11/09/84 12/11/84 01/22/85 02/19/85 03/11/85 04/10/85 05/08/85 06/17/85 07/19/85 08/12/85 09/16/85	106.7 99.1 106.7 106.9 NM-1 107.0 107.1 105.3 NM-1 110.7 NM-1 107.7	64.0 71.6 84.0 63.8 63.7 63.6 65.4 60.0 63.0	8201	04N/08E-14R11 M	160.4	10/26/84 11/13/84 12/28/84 01/23/85 02/21/85 03/07/85 04/10/85 05/17/85 06/11/85 07/15/85 08/16/85 09/20/85	135.1 132.9 132.3 131.0 130.4 131.0 130.4 133.7 133.9 135.5 135.6 135.3	25.3 27.9 29.1 29.4 30.0 29.4 30.0 26.7 26.9 24.9 24.8 23.1	8201
04N/08E-09P11 M	141.5	10/22/84 01/22/85	141.3 138.0	+2 3.5	8201	04N/08E-14+01 M	150.0	10/15/84 03/12/85	130.4 125.9	19.6 24.1	5110
04N/08E-10F12 M	143.2	10/22/84 11/09/84 12/05/84 01/22/85 02/19/85 03/10/85 04/08/85 05/13/85 06/11/85 07/17/85 08/06/85 09/12/85	134.2 133.6 132.6 131.7 NM-1 131.1 NM-1 133.0 133.0 133.3 133.6 134.8	9.0 9.6 10.6 11.5 12.1 10.2 10.2 9.9 7.6 8.4	8201	04N/08E-14L12 M	135.0	10/25/84 01/23/85	116.9 109.0	18.1 20.0	#201
04N/08E-11M12 M	94.3	10/22/84 11/09/84 12/05/84 01/22/85 02/19/85 03/10/85 04/08/85 05/13/85 06/11/85 07/17/85 08/06/85 09/12/85	81.2 81.4 81.2 81.4 NM-1 81.4 NM-1 82.3 82.0 83.4 83.6 84.0	33.1 32.9 33.1 32.9 32.0 31.3 30.9 30.3	8201	04N/08E-15C01 M	106.5	10/19/84 11/08/84 12/05/84 01/19/85 02/14/85 03/16/85 04/08/85 05/13/85 06/26/85 07/17/85 08/30/85 09/12/85	67.0 67.1 65.1 67.0 67.6 67.9 68.0 68.4 68.3 66.9 69.1 68.8	39.5 39.4 41.4 39.5 38.9 38.6 38.5 38.1 38.2 37.6 37.4 37.7	#201
04N/08E-12A01 M	131.0	10/25/84 01/11/85	42.6 43.0	88.4 88.0	8201	04N/08E-15J11 M	132.4	10/19/84 11/08/84 12/05/84 01/18/85 02/14/85 03/16/85 04/08/85 05/13/85 06/26/85 07/17/85 08/30/85 09/12/85	119.4 118.5 117.0 117.7 117.0 116.3 116.3 115.8 115.4 115.4 120.1 122.0 123.5 120.6	13.0 13.9 14.7 15.4 16.1 16.1 16.6	8201
04N/08E-12A11 M	129.2	10/25/84 11/14/84 12/28/84 01/11/85 02/20/85 03/07/85 04/08/85 05/07/85 06/09/85 07/18/85 08/09/85 09/20/85	36.3 36.3 36.5 36.3 NM-1 36.8 36.5 NM-1 NM-1 NM-1 NM-1	92.9 92.9 92.7 92.9 92.4 92.7	8201	04N/08E-15R14 M	130.2	10/19/84 01/18/85	95.5 95.7	34.7 34.5	#201
04N/08E-12R01 M	150.6	10/25/84 11/14/84 12/28/84 01/11/85 02/20/85 03/07/85 04/08/85 05/07/85 06/09/85 07/18/85 08/09/85 09/20/85	36.3 36.3 36.5 36.3 NM-1 36.8 36.5 NM-1 NM-1 NM-1 NM-1	92.9 92.9 92.7 92.9 92.4 92.7	8201	04N/08E-16R12 M	82.4	10/15/84 01/18/85	14.4 15.1	68.0 67.3	#201
04N/08E-12R01 M	150.6	10/25/84 11/14/84 12/28/84 01/11/85 02/20/85 03/07/85 04/08/85 05/07/85 06/09/85 07/18/85 08/09/85 09/20/85	36.3 36.3 36.5 36.3 NM-1 36.8 36.5 NM-1 NM-1 NM-1 NM-1	92.9 92.9 92.7 92.9 92.4 92.7	8201	04N/08E-17J01 M	131.9	10/15/84 03/12/85	137.4 130.9	-5.5 1.0	5110
04N/08E-12R01 M	150.6	10/25/84 11/14/84 12/28/84 01/11/85 02/20/85 03/07/85 04/08/85 05/07/85 06/09/85 07/18/85 08/09/85 09/20/85	36.3 36.3 36.5 36.3 NM-1 36.8 36.5 NM-1 NM-1 NM-1 NM-1	92.9 92.9 92.7 92.9 92.4 92.7	8201	04N/08E-17K01 M	132.0	10/22/84 01/22/85	137.6 132.3	-5.8 -1.1	#201
04N/08E-12R01 M	150.6	10/22/84 11/09/84 12/05/84 01/22/85 02/19/85 03/11/85 04/10/85 05/06/85 06/11/85 07/17/85 08/06/85 09/12/85	85.0 85.2 85.1 85.4 85.4 85.0 85.0 85.6 NM-1 85.0 85.6 85.8	65.6 65.4 65.5 65.2 65.2 65.0 64.8 45.0 84.3 84.3 83.8	8201	04N/08E-20F11 M	75.7	10/18/84 01/18/85	15.4 14.6	60.2 59.1	#201
04N/08E-21M01 M	114.0	03/12/85	86.3	64.3		04N/08E-21M01 M	114.0	03/12/85	113.1	.9	5110
04N/08E-21M13 M	117.0	10/18/84 01/14/85	138.0 115.7	138.0 115.7		04N/08E-21M13 M	117.0	10/18/84 01/14/85	138.0 115.7	-1.0 1.3	#201

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
8 8-03 8-03.8	54N JOAQUIN M8 NORTH VALLEY FLOOR HU LOWER MOKELUNNE NA					8 8-03 8-03.8	54N JOAQUIN M8 NORTH VALLEY FLOOR HU LOWER MOKELUNNE NA				
04N/09E-22C01 M	126.0	10/19/84 03/12/85	63.7 57.7	62.3 58.3	5110	04N/09E-07E11 "	176.6	12/25/94 01/11/95 02/20/95 03/04/95 04/03/95 05/13/95 06/13/95 07/19/95 08/16/95 09/20/95	78.0 76.3 76.2 76.3 76.4 77.3 77.6 77.8 80.1 77.7	100.6 100.3 100.4 100.3 100.2 99.3 99.0 98.8 96.5 98.9	8201
04N/09E-22C19 M	145.4	10/22/84 01/18/85	137.4 135.4	7.6 9.6	8201	04N/09E-07H02 M	172.1	10/25/94 01/29/95	26.2 19.1	145.9 153.0	8201
04N/09E-22F11 M	128.3	10/22/84 11/08/84 12/05/84 11/16/85 02/19/85 03/04/85 04/04/85 05/13/85 06/06/85 07/09/85 08/06/85 09/11/85	122.8 122.1 121.3 120.4 119.6 119.4 118.9 121.1 121.0 123.1 124.4 122.8	5.3 6.2 7.0 7.9 8.7 8.9 9.4 7.2 6.4 9.2 3.9 5.3	82C1	04N/09E-15001 M	194.9	10/24/94 01/28/95	16.4 15.9	182.5 183.0	8201
04N/09E-22011 M	146.2	10/19/84 01/18/85	140.4 137.8	4.4 8.4	8201	04N/09E-15H11 M	191.3	10/24/84 11/14/94 12/07/94 01/23/95 02/23/95 03/03/95 04/08/95 05/16/95 06/10/95 07/15/95 08/14/95 09/12/95	65.1 64.6 75.1 84.5 84.9 86.3 83.2 88.1 82.0 82.3 80.2 83.7	126.2 125.7 116.2 126.5 126.4 123.0 128.1 129.3 129.0 131.1 131.7	8201
04N/09E-23L01 M	192.9	10/18/84 01/18/85	177.5 176.9	15.4 16.0	8201	04N/09E-16A01 M	180.1	10/24/94 01/28/95	-2 -3	180.3 180.4	8201
04N/09E-26A12 M	159.3	10/19/84 11/13/84 12/28/84 01/14/85 02/22/85 03/07/85 04/15/85 05/20/85 06/13/85 07/19/85 08/15/85 09/25/85	144.4 144.2 144.2 143.5 142.9 143.2 142.7 143.2 143.7 143.0 144.4 144.6	14.9 15.1 15.1 15.8 16.4 16.1 16.6 16.1 15.6 15.5 14.9 14.7	8201	04N/09E-16B11 M	185.1	10/24/84 01/28/95	1.4 2.7	183.3 182.4	8201
04N/09E-27J11 M	195.5	10/18/84 01/18/85	190.6 192.2	4.9 3.3	8201	04N/09E-16C01 M	190.3	10/24/84 01/29/95	5.7 7.2	184.6 183.1	8201
04N/09E-28E01 M	110.0	10/18/84 03/21/85	118.9 111.6	-8.9 -1.6	5050	04N/09E-16C11 M	204.0	13/24/94 01/28/95	13.9 15.7	190.1 188.3	8201
04N/09E-28H11 M	131.5	10/18/84 01/18/85	132.6 128.3	-1.1 3.2	8201	04N/09E-16011 M	175.3	13/24/94 01/29/95	FLOW -2.0	177.3	8201
04N/09E-28M12 M	111.9	10/18/84 01/18/85	117.8 113.2	-5.9 -1.3	8201	04N/09E-16012 M	189.7	10/24/84 01/29/95	6.3 5.5	183.4 184.2	8201
04N/09E-29E01 M	108.9	10/18/84 01/17/85	116.1 110.3	-7.2 -1.4	8201	04N/09E-16013 M	191.4	10/24/94 11/14/84 12/07/84 01/29/85 02/20/85 03/12/85 04/08/85 05/16/85 06/10/85 07/15/85 08/14/85 09/12/85	3.6 4.1 4.3 5.1 5.0 5.2 4.4 4.0 4.6 4.6 6.7	187.8 187.3 187.1 186.3 186.4 186.2 187.0 187.4 186.8 186.6 184.7 183.9	8201
04N/09E-32H01 M	105.0	10/15/84 03/12/85	119.4 122.0	-14.5 -17.0	5110	04N/09E-16014 M		10/24/94 01/29/95	FLOW FLOW		8201
04N/09E-34E01 M	158.6	10/18/84 01/14/85	164.3 158.8	-5.7 -2	8201	04N/09E-16015 M		01/29/95	FLOW		8201
04N/09E-34011 M	162.6	10/18/84 01/18/85	169.7 167.2	-7.1 -4.6	82C1	04N/09E-16002 M	181.2	10/24/94 11/14/94 12/07/94 01/29/95 02/23/95 03/14/95 04/08/95 05/16/95 06/10/95 07/15/95 08/14/95 09/12/95	22.2 22.0 21.6 22.6 22.8 22.6 20.8 21.4 20.0 21.1 21.5 21.7	159.0 159.2 159.6 158.6 158.6 158.6 160.4 159.8 161.2 160.1 159.7 159.5	8201
04N/09E-35P02 M	196.0	10/18/84 03/21/85	194.5 193.1	1.5 2.9	5050	04N/09E-17E11 M		13/24/94 11/14/94 12/14/94 01/29/95 02/20/95 03/12/95 04/03/95 05/16/95 06/10/95 07/15/95 08/14/95 09/12/95	FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW		8201
04N/09E-36P01 M	209.0	10/18/84 03/21/85	220.1 217.2	-11.1 -8.2	5050	04N/09E-17011 M		13/24/94 11/14/94 12/14/94 01/29/95 02/20/95 03/12/95 04/03/95 05/16/95 06/10/95 07/15/95 08/14/95 09/12/95	22.2 22.0 21.6 22.6 22.8 22.6 20.8 21.4 20.0 21.1 21.5 21.7	159.0 159.2 159.6 158.6 158.6 160.4 159.8 161.2 160.1 159.7 159.5	8201
04N/09E-05011 M	181.4	10/23/84 11/15/84 12/07/84 01/23/85 02/20/85 03/07/85 04/10/85 05/20/85 06/11/85 07/19/85 08/12/85 09/16/85	20.4 17.9 18.7 19.2 19.0 19.2 20.6 20.4 27.8 30.9 31.5	161.0 163.5 162.7 162.2 162.4 162.2 154.8 133.6 130.3 149.9	82C1	04N/09E-17012 M		13/24/94 11/14/94 12/14/94 01/29/95 02/20/95 03/12/95 04/03/95 05/16/95 06/10/95 07/15/95 08/14/95 09/12/95	FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW		8201
04N/09E-06L11 M	129.6	10/22/84 11/30/84 12/11/84 01/22/85 02/19/85 03/11/85 04/10/85 05/17/85 06/17/85 07/09/85 08/12/85 09/16/85	9.4 9.4 9.6 9.2 9.4 11.2 11.3 11.4 12.2 11.4 11.4 15.2	116.2 116.0 116.4 115.8 114.4 114.3 113.4 113.4 113.4 113.4 113.4 110.4	8201	04N/09E-17012 M		10/24/94 11/14/94 12/28/94 01/29/95 02/21/95 03/12/95 04/03/95 05/16/95 06/10/95 07/15/95 08/14/95 09/18/95	FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW FLOW		8201
04N/09E-07012 M	154.3	10/24/84 11/14/84 12/28/84 01/11/85 02/20/85 03/07/85 04/08/85 05/13/85 06/13/85 07/19/85 08/16/85 09/20/85	59.3 59.6 59.6 59.7 59.9 60.0 60.2 60.7 61.4 61.6 62.0 62.2	96.0 95.7 95.5 94.6 94.4 95.3 95.1 94.6 93.9 93.7 93.3 93.1	8201	04N/09E-17E01 M	180.8	10/24/84 11/14/84 12/14/84 01/29/85	15.6 17.7 15.0 15.4	145.2 145.1 145.0 145.4	8201
04N/09E-07F11 M	176.8	10/24/84 11/14/84	75.6 76.0	101.0 103.4	8201						

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
8 8-03 8-03.6	549 JOAQUIN HW NORTH VALLEY FLOOR HU LOWER MORELUMNE HA					8 8-03 8-03.6	549 JOAQUIN HW NORTH VALLEY FLOOR HU LOWER MORELUMNE HA				
04N/09E-17E01 M	160.8	02/21/85 03/12/85 04/08/85 05/16/85 06/10/85 07/14/85 08/16/85 09/18/85	15.0 15.0 15.0 15.4 15.4 15.6 17.1 17.6	145.8 145.8 145.8 145.4 145.4 145.2 143.7 143.2	A2C1	04N/09E-19J11 M	173.1	04/16/85 05/16/85 06/17/85 07/15/85 08/14/85 09/23/85	109.3 111.0 NM-1 109.6 109.5 109.9	63.4 62.1 63.9 63.9 63.3	A201
04N/09E-18A11 M	163.3	10/24/84 11/14/84 12/14/84 01/23/85 02/21/85 03/13/85 04/08/85 05/16/85 06/10/85 07/15/85 08/14/85 09/18/85	23.1 25.2 23.1 23.2 23.1 23.2 23.4 23.5 22.6 24.0 24.3 24.3	160.2 136.1 160.2 160.1 160.2 160.1 139.9 159.6 150.7 150.3 159.0 159.0	9201	04N/09E-20C11 M	197.2	10/26/84 11/14/84 12/20/84 01/23/85 02/22/85 03/12/85 04/01/85 05/15/85 06/13/85 07/15/85 08/14/85 09/25/85	72.6 75.4 NM-0 72.9 72.7 72.9 71.9 72.9 73.5 73.8 72.1 72.3	124.6 121.8 NM-0 124.3 124.5 124.7 123.3 124.3 123.4 123.1 124.9	A201
04N/09E-18C01 M	173.2	10/24/84 11/14/84 12/14/84 01/23/85 02/21/85 03/13/85 04/08/85 05/16/85 06/10/85 07/15/85 08/14/85 09/18/85	34.3 34.3 34.0 34.5 34.1 34.4 34.7 34.9 34.6 35.3 35.3 35.1	134.9 136.9 136.2 136.7 139.1 136.6 136.5 137.9 137.9 137.9 138.1	8201	04N/09E-20M01 M		10/24/84 01/23/85 01/23/85 04/24/85 07/15/85	NM-0 NM-0 NM-0 NM-0 NM-0		6201
04N/09E-18E01 M	177.6	10/24/84 11/14/84 12/12/84 01/23/85 02/20/85 03/08/85 04/08/85 05/13/85 06/11/85 07/16/85 08/16/85 09/25/85	122.3 110.4 117.6 116.3 117.5 116.1 113.5 113.8 126.3 141.7 144.2 145.0	35.3 58.9 60.0 61.3 60.1 61.5 62.1 42.8 51.3 31.9 33.4 32.6	8201	04N/09E-21A01 M	215.4	10/24/84 11/14/84 12/27/84 01/23/85 02/20/85 03/28/85 04/08/85 05/16/85 06/10/85 07/15/85 08/14/85 09/12/85	44.9 45.3 45.1 45.1 44.9 45.2 44.9 40.3 44.8 45.6 43.3 45.0	171.3 171.1 171.3 171.3 171.5 171.2 171.5 176.1 171.6 170.8 171.1 171.4	9201
04N/09E-18H12 M	179.0	10/24/84 11/14/84 12/12/84 01/23/85 02/20/85 03/08/85 04/08/85 05/13/85 06/11/85 07/16/85 08/16/85 09/25/85	109.7 NM-1 106.0 103.4 NM-1 NM-1 NM-1 NM-1 NM-1 116.9 137.1 NM-1	69.3 73.0 73.6 62.1 41.9	9201	04N/09E-22J01 M	206.2	10/24/84 11/20/84 12/26/84 01/28/85 02/20/85 03/12/85 04/08/85 05/07/85 06/10/85 07/15/85 08/14/85 09/12/85	16.7 15.6 6.6 6.8 6.4 6.0 6.8 12.7 16.2 17.0 19.4 18.7	184.5 180.6 199.6 199.4 199.6 200.2 199.4 193.5 190.0 190.0 186.8 187.5	A201
04N/09E-18E01 M	154.2	10/24/84 11/14/84 12/28/84 01/20/85 02/22/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	106.0 104.9 103.8 104.2 NM-1 NM-1 NM-1 NM-1 NM-1 NM-1 101.9 102.0	32.2 33.3 32.4 34.0 34.6 34.5 34.1 36.3 36.1 36.2	8201	04N/09E-24E11 M	205.3	10/24/84 01/24/85	145.8 143.6	149.7 151.9	A201
04N/09E-18H11 M	188.0	10/24/84 11/14/84 12/28/84 01/20/85 02/22/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	29.1 29.1 29.1 29.1 29.1 29.1 29.1 29.1 29.1 29.1 29.1 29.1	158.9 158.9 158.9 158.9 158.9 158.9 158.9 158.9 158.9 158.9 158.9 158.9	8201	04N/09E-24K13 M	312.6	10/24/84 11/06/84 12/07/84 01/25/85 02/20/85 03/12/85 04/08/85 05/07/85 06/10/85 07/15/85 08/14/85 09/12/85	175.3 170.4 165.6 156.7 151.5 166.3 157.5 167.4 167.0 175.7 177.3 175.2	144.3 149.1 153.0 152.9 158.1 153.5 152.1 152.1 151.6 143.9 142.3 144.4	A201
04N/09E-18J01 M	135.0	10/24/84 11/14/84 12/28/84 01/20/85 02/22/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	44.8 44.2 44.3 44.8 44.3 44.4 44.4 44.4 44.1 44.7 44.6 44.6	110.2 110.8 110.7 110.2 110.5 110.6 110.6 109.9 110.3 110.4 110.4 110.4	A201	04N/09E-26F11 M	230.6	10/24/84 01/24/85	124.3 117.7	105.3 112.9	A201
04N/09E-18H11 M	188.0	10/24/84 11/14/84 12/28/84 01/20/85 02/22/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	29.1 29.1 29.1 29.1 29.1 29.1 29.1 29.1 29.1 29.1 29.1 29.1	158.9 158.9 158.9 158.9 158.9 158.9 158.9 158.9 158.9 158.9 158.9 158.9	8201	04N/09E-26C02 M	313.4	10/24/84 11/13/84 12/06/84 01/26/85 02/21/85 03/12/85 04/15/85 05/15/85 06/13/85 07/16/85 08/15/85 09/25/85	132.8 132.4 132.9 132.1 132.2 132.5 131.7 131.2 132.2 132.4 132.7 132.7	180.6 180.6 180.9 181.3 181.2 181.2 181.7 181.2 181.2 180.9 180.7 180.7	A201
04N/09E-18H11 M	155.1	10/24/84 11/14/84 12/28/84 01/20/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	112.7 111.9 111.8 111.8 110.5 110.5 110.6 110.6 109.9 110.3 110.4 110.4	42.4 43.2 43.2 44.6 45.1 45.5 45.9 45.9 45.8 44.4 45.6 46.6	A201	04N/09E-31M01 M	250.0	10/15/84 03/12/85	234.7(1) NM-2	159.3	5110
04N/09E-18H11 M	155.1	10/24/84 11/14/84 12/28/84 01/20/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	112.7 111.9 111.8 111.8 110.5 110.5 110.6 110.6 109.9 110.3 110.4 110.4	42.4 43.2 43.2 44.6 45.1 45.5 45.9 45.9 45.8 44.4 45.6 46.6	A201	04N/09E-31M01 M	250.0	10/15/84 03/12/85	234.7(1) NM-2	159.3	5110
04N/09E-18H11 M	155.1	10/24/84 11/14/84 12/28/84 01/20/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	112.7 111.9 111.8 111.8 110.5 110.5 110.6 110.6 109.9 110.3 110.4 110.4	42.4 43.2 43.2 44.6 45.1 45.5 45.9 45.9 45.8 44.4 45.6 46.6	A201	04N/09E-31M01 M	250.0	10/15/84 03/12/85	234.7(1) NM-2	159.3	5110
04N/09E-18H11 M	155.1	10/24/84 11/14/84 12/28/84 01/20/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	112.7 111.9 111.8 111.8 110.5 110.5 110.6 110.6 109.9 110.3 110.4 110.4	42.4 43.2 43.2 44.6 45.1 45.5 45.9 45.9 45.8 44.4 45.6 46.6	A201	04N/09E-31M01 M	250.0	10/15/84 03/12/85	234.7(1) NM-2	159.3	5110
04N/09E-18H11 M	155.1	10/24/84 11/14/84 12/28/84 01/20/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	112.7 111.9 111.8 111.8 110.5 110.5 110.6 110.6 109.9 110.3 110.4 110.4	42.4 43.2 43.2 44.6 45.1 45.5 45.9 45.9 45.8 44.4 45.6 46.6	A201	04N/09E-31M01 M	250.0	10/15/84 03/12/85	234.7(1) NM-2	159.3	5110
04N/09E-18H11 M	155.1	10/24/84 11/14/84 12/28/84 01/20/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	112.7 111.9 111.8 111.8 110.5 110.5 110.6 110.6 109.9 110.3 110.4 110.4	42.4 43.2 43.2 44.6 45.1 45.5 45.9 45.9 45.8 44.4 45.6 46.6	A201	04N/09E-31M01 M	250.0	10/15/84 03/12/85	234.7(1) NM-2	159.3	5110
04N/09E-18H11 M	155.1	10/24/84 11/14/84 12/28/84 01/20/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	112.7 111.9 111.8 111.8 110.5 110.5 110.6 110.6 109.9 110.3 110.4 110.4	42.4 43.2 43.2 44.6 45.1 45.5 45.9 45.9 45.8 44.4 45.6 46.6	A201	04N/09E-31M01 M	250.0	10/15/84 03/12/85	234.7(1) NM-2	159.3	5110
04N/09E-18H11 M	155.1	10/24/84 11/14/84 12/28/84 01/20/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	112.7 111.9 111.8 111.8 110.5 110.5 110.6 110.6 109.9 110.3 110.4 110.4	42.4 43.2 43.2 44.6 45.1 45.5 45.9 45.9 45.8 44.4 45.6 46.6	A201	04N/09E-31M01 M	250.0	10/15/84 03/12/85	234.7(1) NM-2	159.3	5110
04N/09E-18H11 M	155.1	10/24/84 11/14/84 12/28/84 01/20/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	112.7 111.9 111.8 111.8 110.5 110.5 110.6 110.6 109.9 110.3 110.4 110.4	42.4 43.2 43.2 44.6 45.1 45.5 45.9 45.9 45.8 44.4 45.6 46.6	A201	04N/09E-31M01 M	250.0	10/15/84 03/12/85	234.7(1) NM-2	159.3	5110
04N/09E-18H11 M	155.1	10/24/84 11/14/84 12/28/84 01/20/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	112.7 111.9 111.8 111.8 110.5 110.5 110.6 110.6 109.9 110.3 110.4 110.4	42.4 43.2 43.2 44.6 45.1 45.5 45.9 45.9 45.8 44.4 45.6 46.6	A201	04N/09E-31M01 M	250.0	10/15/84 03/12/85	234.7(1) NM-2	159.3	5110
04N/09E-18H11 M	155.1	10/24/84 11/14/84 12/28/84 01/20/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	112.7 111.9 111.8 111.8 110.5 110.5 110.6 110.6 109.9 110.3 110.4 110.4	42.4 43.2 43.2 44.6 45.1 45.5 45.9 45.9 45.8 44.4 45.6 46.6	A201	04N/09E-31M01 M	250.0	10/15/84 03/12/85	234.7(1) NM-2	159.3	5110
04N/09E-18H11 M	155.1	10/24/84 11/14/84 12/28/84 01/20/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	112.7 111.9 111.8 111.8 110.5 110.5 110.6 110.6 109.9 110.3 110.4 110.4	42.4 43.2 43.2 44.6 45.1 45.5 45.9 45.9 45.8 44.4 45.6 46.6	A201	04N/09E-31M01 M	250.0	10/15/84 03/12/85	234.7(1) NM-2	159.3	5110
04N/09E-18H11 M	155.1	10/24/84 11/14/84 12/28/84 01/20/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	112.7 111.9 111.8 111.8 110.5 110.5 110.6 110.6 109.9 110.3 110.4 110.4	42.4 43.2 43.2 44.6 45.1 45.5 45.9 45.9 45.8 44.4 45.6 46.6	A201	04N/09E-31M01 M	250.0	10/15/84 03/12/85	234.7(1) NM-2	159.3	5110
04N/09E-18H11 M	155.1	10/24/84 11/14/84 12/28/84 01/20/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	112.7 111.9 111.8 111.8 110.5 110.5 110.6 110.6 109.9 110.3 110.4 110.4	42.4 43.2 43.2 44.6 45.1 45.5 45.9 45.9 45.8 44.4 45.6 46.6	A201	04N/09E-31M01 M	250.0	10/15/84 03/12/85	234.7(1) NM-2	159.3	5110
04N/09E-18H11 M	155.1	10/24/84 11/14/84 12/28/84 01/20/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	112.7 111.9 111.8 111.8 110.5 110.5 110.6 110.6 109.9 110.3 110.4 110.4	42.4 43.2 43.2 44.6 45.1 45.5 45.9 45.9 45.8 44.4 45.6 46.6	A201	04N/09E-31M01 M	250.0	10/15/84 03/12/85	234.7(1) NM-2	159.3	5110
04N/09E-18H11 M	155.1	10/24/84 11/14/84 12/28/84 01/20/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	112.7 111.9 111.8 111.8 110.5 110.5 110.6 110.6 109.9 110.3 110.4 110.4	42.4 43.2 43.2 44.6 45.1 45.5 45.9 45.9 45.8 44.4 45.6 46.6	A201	04N/09E-31M01 M	250.0	10/15/84 03/12/85	234.7(1) NM-2	159.3	5110
04N/09E-18H11 M	155.1	10/24/84 11/14/84 12/28/84 01/20/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	112.7 111.9 111.8 111.8 110.5 110.5 110.6 110.6 109.9 110.3 110.4 110.4	42.4 43.2 43.2 44.6 45.1 45.5 45.9 45.9 45.8 44.4 45.6 46.6	A201	04N/09E-31M01 M	250.0	10/15/84 03/12/85	234.7(1) NM-2	159.3	5110
04N/09E-18H11 M	155.1	10/24/84 11/14/84 12/28/84 01/20/85 03/13/85 04/13/85 05/16/85 06/12/85 07/10/85 08/09/85 09/25/85	112.7 111.9 111.8 111.8 110.5 110.5 110.6 110.6								

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS												
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	
B 8-03 8-03.A	SAN JOAQUIN HB NORTH VALLEY FLOOR HU LOWER MOJAVE H4					B 8-03 8-03.C	SAN JOAQUIN HB NORTH VALLEY FLOOR HU LOWER CALAVERAS H4					
05M/09E-21E11 M	302.0	08/16/85 09/20/85	95.3 93.7	206.3 208.3	R201	01M/07E-01M02 M	30.0	03/13/85	69.0	-19.0	5110	
05M/09E-22C11 M	318.7	10/23/84 01/25/85	98.4 98.6	220.3 220.1	R201	01M/07E-02G01 M	30.0	12/03/84 04/10/85	68.5 (R) 71.3	-16.5 -21.5	5110	
05M/09E-22P11 M	273.7	10/23/84 01/25/85	43.7 42.0	230.0 231.7	R201	01M/07E-03L01 M		12/03/84 04/10/85	NM-0 64.0	-21.0	5110	
05M/09E-22H11 M	322.1	10/23/84 11/15/84 12/07/84 01/25/85 02/20/85 03/11/85 04/01/85 05/17/85 06/17/85 07/12/85 08/16/85 09/20/85	83.2 81.8 82.8 81.1 81.2 80.0 82.4 81.4 81.3 84.4 81.4 84.7	238.9 240.3 239.3 241.0 240.9 241.2 239.7 240.7 240.6 237.7 240.7 237.4	R201	01M/07E-03M01 M	41.0	12/03/84 04/10/85	72.0 54.0	-31.0 -13.0	5110	
						01M/07E-04P03 M	35.4	03/14/85	62.4	-27.0	5110	
						01M/07E-04R01 M	39.0	12/03/84 04/04/85	57.0 57.0 (R)	-14.0 -18.0	5110	
						01M/07E-06E01 M	22.5	03/14/85	58.0	-33.5	5110	
						01M/07E-07E01 M	25.0	10/30/84 03/01/85	60.0 (R) 46.0	-25.0 -23.0	5001	
05M/09E-26O11 M	321.7	10/23/84 11/15/84 12/07/84 01/25/85 02/20/85 03/11/85 04/03/85 05/17/85 06/12/85 07/12/85 08/16/85 09/20/85	76.0 81.2 (R) 74.0 79.7 74.1 73.9 74.4 74.7 74.6 75.1 75.2 74.4	245.7 240.9 246.8 242.0 247.6 247.8 247.3 247.0 247.1 246.6 246.3 247.3	R201	01M/07E-07F01 M	25.8	10/15/84 03/12/85	49.8 44.9	-24.0 -19.1	5050	
						01M/07E-08R01 M	30.0	12/03/84 04/04/85	56.0 53.0	-26.0 -23.0	5110	
						01M/07E-08R02 M		10/31/84 03/14/85	NM-7 80.0	-48.5	5001 5110	
						01M/07E-09E04 M		12/03/84 04/04/85	NM-4 NM-4		5110	
						01M/07E-09H01 M		12/03/84 04/04/85	NM-4 62.9	-23.5	5110	
05M/09E-26E12 M	297.1	10/23/84 01/25/85	62.9 62.4	234.2 234.7	R201	01M/07E-10G01 M	39.0	12/03/84 04/04/85	59.0 61.0	-26.0 -22.0	5110	
05M/09E-26R11 M	343.4	10/23/84 11/15/84 12/07/84 01/25/85 02/20/85 03/11/85 04/03/85 05/17/85 06/12/85 07/12/85 08/16/85 09/20/85	92.8 85.3 82.6 79.0 77.6 77.2 77.4 85.2 97.4 97.9 92.4 92.8	252.4 260.1 262.8 266.4 267.6 268.2 268.0 260.2 247.8 247.5 253.0 252.6	R201	01M/07E-10G01 M	43.0	12/03/84 04/04/85	66.0 63.3	-23.0 -22.5	5110	
						01M/08E-02B01 M		10/01/84 03/20/85	NM-7 104.1	-20.1	5001 5050	
						01M/08E-02J01 M		10/31/84 03/20/85	NM-7 106.3	-20.3	5001 5050	
						01M/08E-03P01 M	80.0	10/12/84 03/13/85	120.0 (R) 111.0 (R)	-40.0 -31.0	5110	
05M/09E-26K12 M	312.3	10/23/84 11/16/84 12/07/84 01/25/85 02/20/85 03/11/85 04/03/85 05/17/85 06/17/85 07/12/85 08/16/85 09/20/85	87.2 87.0 86.3 86.3 86.0 86.8 86.8 87.0 87.0 87.5 86.8 87.6	225.1 225.3 225.8 225.8 225.4 225.3 225.3 225.3 224.8 225.3 224.7	R201	01M/08E-04E01 M	69.3	10/12/84 04/03/85	103.0 (R) 93.0 (R)	-33.5 -23.5	5110	
						01M/09E-08H01 M		10/01/84 10/12/84 11/03/85	NM-7 NM-7 145.3 (R)		5001 5110	
						01M/09E-17R02 M	105.0	10/16/84 03/19/85	123.9 112.1	-14.9 -7.1	5050	
						02M/08E-35O02 M	17.5	10/19/84 03/12/85	39.1 35.1	-21.6 -17.6	5050	
05M/09E-31L11 M	235.0	10/23/84 11/16/84 12/07/84 01/23/85 02/20/85 03/15/85 04/10/85 05/20/85 06/14/85 07/19/85 08/12/85 09/25/85	97.7 97.6 96.9 97.4 97.1 97.1 97.6 97.0 97.6 97.1 98.0 95.4	137.3 137.4 138.1 137.6 137.9 137.4 137.4 137.0 137.4 137.0 139.6	R201	02M/07E-01R01 M	73.2	10/10/84 01/14/85	97.0 92.3	-23.8 -19.1	6201	
						02M/07E-10J11 M	55.6	10/15/84 01/14/85	83.8 80.1	-24.2 -24.3	6201	
						02M/07E-11F01 M	58.0	10/22/84 03/25/85	92.0 (R) 82.0 (R)	-34.0 -24.0	5110	
						02M/07E-12A03 M	72.2	10/18/84 01/25/85 02/26/85 03/23/85 04/25/85 05/23/85 06/23/85 07/23/85 08/22/85 09/24/85	94.9 90.4 89.2 88.4 90.1 101.8 105.0 101.8 111.8 102.0	-24.7 -14.2 -17.0 -16.2 -17.9 -29.6 -32.8 -32.8 -39.6 -29.6	5050	
05M/09E-33P11 M	268.4	10/23/84 11/15/84 12/07/84 01/25/85 02/20/85 03/11/85 04/03/85 05/17/85 06/12/85 07/12/85 08/16/85 09/20/85	51.9 51.7 51.3 51.2 50.6 50.7 50.3 50.3 49.8 49.8 49.6 49.8	214.5 214.7 215.1 215.2 215.8 215.7 216.1 216.1 216.6 216.8 216.8	R201	02M/07E-14P01 M	57.3	03/15/85	78.8	-21.5	5110	
						02M/07E-15C01 M	51.7	10/22/84 03/25/85	89.0 83.0	-37.3 -31.3	5110	
B-03.C	LOWER CALAVERAS H4					02M/07E-16L01 M	46.2	10/22/84 03/25/85	88.5 (R) 79.5 (R)	-42.3 -33.3	5110	
01M/06E-02C01 M		19.0	10/15/84 03/12/85	39.0 34.4	-19.0 -13.6	5050	02M/07E-16M01 M		10/30/84 01/11/85	74.4 68.6	-31.8 -24.6	R201
01M/06E-11E02 M		14.0	03/14/85	29.0	-15.0	5110	02M/07E-20M02 M	35.0	10/22/84 03/25/85	73.0 (R) 68.5 (R)	-38.0 -33.5	5110
01M/06E-12G01 M		21.2	10/15/84 03/12/85	44.6 39.3	-23.4 -18.3	5050	02M/07E-21G11 M	46.2	10/30/84 01/11/85	77.0 72.9	-30.8 -26.7	6201
01M/06E-12J01 M		22.5	10/15/84 03/12/85	45.3 41.3	-22.8 -18.8	5050	02M/07E-21K02 M	43.0	12/04/84 04/02/85	87.0 86.0	-22.0 -21.0	5110
01M/07E-01A02 M		62.0	12/03/84 04/10/85	81.5 82.4	-20.5 -20.3	5110	02M/07E-21M01 M	40.0	12/34/84 04/02/85	79.0 (R) 70.0 (R)	-89.0 -30.0	5110
01M/07E-01J02 M		60.0	12/03/84 04/10/85	89.0 83.3	-29.0 -23.3	5110	02M/07E-22M01 M		12/04/84 04/02/85	NM-4 NM-4		5110

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
B B-03 B-03.C	SAN JOAQUIN RR NORTH VALLEY FLOOR HU LOWER CALAVERAS HA					B B-03 B-03.C	SAN JOAQUIN RR NORTH VALLEY FLOOR HU LOWER CALAVERAS HA				
02N/07E-23801 M	57.0	12/04/84 04/02/85	80.0(8) 80.0(8)	-23.0 -23.0	5110	02N/08E-19C03 M	67.3	03/15/85	88.9	-21.6	5110
02N/07E-23J02 M	59.6	03/15/85	89.7	-30.1	5110	02N/08E-20F01 M	73.0	03/15/85	104.8	-31.8	5110
02N/07E-24801 M	65.4	03/15/85	87.5	-22.1	5110	02N/08E-21R01 M	79.9	10/31/84 03/15/85	NM-7 100.1	-29.2	5001 5110
02N/07E-24J01 M	65.0	12/04/84 04/02/85	97.0(8) 100.0(8)	-32.0 -35.0	5110	02N/08E-24P01 M	125.0	03/15/85	150.4	-24.4	5110
02N/07E-24Q01 M	62.5	12/04/84 04/02/85	87.5 87.5	-25.0 -25.0	5110	02N/08E-30H01 M	69.4	03/15/85	99.9(8)	-30.5	5110
02N/07E-26H03 M		12/04/84 04/02/85	NM-3 NM-3		5110	02N/08E-32L02 M	69.3	03/15/85	91.7	-11.7	5110
02N/07E-26N01 M	50.3	03/15/85	76.5	-26.2	5110	02N/08E-33E01 M	75.0	03/15/85	103.0	-28.0	5110
02N/07E-26R01 M	56.0	12/04/84 04/02/85	99.0(8) 102.0(8)	-43.0 -46.0	5110	02N/08E-34E01 M	82.6	10/12/84 03/15/85	120.7(8) 112.7(8)	-38.1 -30.1	5110
02N/07E-27D01 M	46.7	03/15/85	85.2	-38.5	5110	02N/08E-36L01 M	97.2	10/29/84 11/29/84 12/26/84 01/25/85 02/22/85 03/25/85 04/25/85 05/24/85 06/24/85 07/25/85 08/23/85 09/23/85	122.9 121.2 119.3 117.9 116.4 115.0 114.2 117.6 119.8 122.6 124.5 124.9	-25.7 -24.0 -22.1 -20.7 -19.2 -17.8 -17.0 -20.4 -22.6 -25.4 -27.3 -27.7	5050
02N/07E-27L01 M	47.0	12/04/84 04/02/85	66.0(1) NM-9	-19.0	5110	02N/09E-03A01 M	150.0	03/15/85	66.9(6)	83.1	5110
02N/07E-28X02 M	42.0	12/04/84 04/02/85	92.0 86.0	-50.0 -44.0	5110	02N/09E-04H01 M	158.1	03/15/85	74.0(6)	79.1	5110
02N/07E-28H04 M	36.0	03/15/85	59.5	-21.5	5110	02N/09E-05H01 M	132.2	10/31/84 03/15/85	NM-7 116.5	15.7	5001 5110
02N/07E-28R01 M	39.0	12/04/84 04/02/85	66.0 63.0	-27.0 -24.0	5110	02N/09E-05M01 M	126.1	10/18/84 03/20/85	121.0 119.2	5.1 6.9	5050
02N/07E-29R01 M		12/04/84 04/02/85	NM-3 NM-3		5110	02N/09E-07G02 M	117.5	03/15/85	131.0(6)	-13.5	5110
02N/07E-29H02 M	34.0	12/04/84 04/02/85	55.0 52.0	-21.0 -18.0	5110	02N/09E-08N01 M	141.6	03/15/85	152.0(8)	-10.4	5110
02N/07E-30E01 M	28.0	10/19/84 03/25/85	66.5 64.5	-38.5 -36.5	5110	02N/09E-09Q01 M	132.8	03/15/84	123.8(8)	9.2	5110
02N/07E-30H01 M	32.5	12/04/84 04/02/85	54.0(4) NM-1	-21.5	5110	02N/09E-11A01 M	253.0	03/15/85	176.0(3)	83.0	5110
02N/07E-31M01 M	27.2	10/19/84	52.0	-24.8	5110	02N/09E-18C01 M	107.1	03/15/85	121.7(8)	-14.6	5110
02N/07E-32J02 M	35.0	12/04/84 04/02/85	54.0 53.0	-19.0 -18.0	5110	02N/09E-22B02 M	171.0	03/20/85	144.9	26.1	5050
02N/07E-32M02 M	30.0	12/04/84 04/02/85	43.0(8) 44.0(8)	-13.0 -14.0	5110	03N/08E-32P01 M	85.0	10/18/84 03/20/85	110.3 101.3	-25.3 -16.3	5050
02N/07E-32R01 M		03/15/85	NM-7		5110	03N/08E-19M01 M	180.0	03/21/85	186.6	-6.6	5050
02N/07E-33H01 M	41.0	03/15/85	61.0(8)	-20.0	5110	03N/08E-25R01 M	169.8	03/15/85	93.8	116.0	5110
02N/07E-33L01 M	38.0	12/04/84 04/01/85	57.0(8) 52.0(8)	-19.0 -14.0	5110	03N/08E-33J01 M	140.0	03/15/85	73.9	66.1	5110
02N/07E-34E01 M		12/04/84	NM-4		5110	03N/08E-33G01 M	180.4	03/15/85	76.2	104.2	5110
02N/07E-34R01 M	47.0	12/03/84 04/10/85	63.0 64.0	-16.0 -17.0	5110	B-03.0 DUCK-LITTLE JOHNS HA					
02N/07E-35L01 M	49.8	03/15/85	74.9	-25.1	5110	01N/06E-14C03 M	14.3	10/01/84 10/29/84 11/25/84 12/26/84 01/24/85 02/22/85 03/23/85 04/25/85 05/24/85 06/24/85 07/25/85 08/23/85 09/23/85	NM-7 30.3 29.6 28.7 28.4 28.0 27.7 27.4 27.4 27.9 28.6 30.0 31.3 31.7	-16.0 -15.3 -14.4 -14.1 -13.7 -13.7 -13.1 -13.6 -14.3 -14.7 -17.0 -17.4	5001 5050
02N/07E-36P02 M	54.0	10/18/84 01/25/85 02/26/85 03/25/85 04/25/85 05/23/85 06/23/85 07/25/85 08/22/85 09/24/85	85.3 80.1(4) 77.7(4) 76.1 77.6 77.6 84.8 85.6 89.1 91.2 90.0	-31.3 -26.1 -23.7 -24.1 -23.6 -30.8 -31.6 -35.1 -37.2 -36.0	5050	01N/06E-23D01 M	9.0	10/31/84 03/13/85	NM-7 20.4	-11.4	5001
02N/08E-03G02 M	108.6	10/22/84 03/25/85	116.5(4) NM-1	-7.7	5110	01N/06E-23J01 M	11.8	03/13/85	22.7	-10.9	5050
02N/08E-04C01 M	92.0	10/22/84 03/25/85	135.5(8) 118.5(8)	-43.5 -26.5	5110	01N/06E-25H02 M		10/31/84 03/13/85	NM-7 NM-0		5001
02N/08E-08H01 M	76.7	10/28/84 04/15/85	NM-3 93.7(8)	-17.0	5110	01N/07E-09Q03 M	38.0	12/23/84 04/24/85	47.0 51.0	-29.0 -23.0	5110
02N/08E-09G02 M	87.0	10/22/84 03/25/85	112.0 110.0(3)	-25.0 -23.0	5110	01N/07E-11L01 M	50.0	12/23/84 04/10/85	45.0(8) 70.5(8)	-15.0 -20.5	5110
02N/08E-10H02 M	105.4	10/22/84 03/25/85	156.5 151.5(3)	-51.1 -46.1	5110	01N/07E-11M01 M	46.3	10/12/84 03/13/85	68.0(3) 85.0(3)	-41.7 -38.7	5110
02N/08E-12C02 M	109.3	03/15/85	114.0	-4.7	5110	01N/07E-13L01 M	47.0	10/01/84 03/19/85	NM-7 76.3	-29.9	5001 5050
02N/08E-13K01 M	105.6	03/15/85	144.2	-38.6	5110	01N/07E-15M02 M	38.0	10/12/84 03/13/85	98.0 88.0(4)	-60.0 -26.0	5110
02N/08E-14C01 M	94.4	03/15/85	115.4(6)	-21.0	5110	01N/07E-19G01 M	23.5	10/12/84 03/13/85	74.4 45.5	-41.0 -22.0	5110
02N/08E-15M02 M	84.9	03/15/85	116.1	-31.2	5110	01N/07E-20G01 M	29.0	10/12/84 03/13/85	99.0 80.0(8)	-60.0 -31.0	5110
02N/08E-16N01 M	80.5	10/22/84 04/15/85	NM-3 98.8(8)	-18.1	5110						
02N/08E-19C01 M	68.9	10/22/84 03/25/85	106.9(8) 99.4(8)	-38.0 -30.5	5110						

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS												
STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	
R-03 R-03.0	SAN JOAQUIN RR NORTH VALLEY FLOOR HU DUCK-LITTLEJOHNS WA					R-03 R-03.0	SAN JOAQUIN RR NORTH VALLEY FLOOR HU DUCK-LITTLEJOHNS WA					
01N/07E-21001 M	37.0	10/12/84 04/01/85	MM-9 69.0	-32.0	5110	01N/09E-21J01 M	114.0	10/16/84 03/19/85	116.3 108.5	-2.3 5.9	5050	
01N/07E-23002 M	51.0	10/17/84 01/24/88 02/26/85 03/25/85 04/25/89 07/23/85 08/24/85 07/25/85 08/22/85 09/23/85	92.8 88.4(4) 86.0 84.9(4) MM-1 84.4(4) 91.2(4) 93.4 94.8 95.6	-41.8 -37.4 -35.8 -33.9 -37.4 -40.2 -42.4 -44.8 -44.6	5050	01N/09E-22G02 M	119.0	10/12/84 03/14/85	149.4 132.4	-31.4 -14.4	5110	
						01N/09E-23001 M	125.0	10/16/84 03/25/85 04/29/85	108.4 MM-0 104.3	16.2 20.7	5001	
						01N/09E-29A01 M		10/17/84 03/14/89	MM-3 MM-0		5001	
01N/07E-24A01 M	58.4	10/11/84 03/14/85	120.5(8) 118.0(8)	-62.1 -59.6	5110	01N/09E-30C05 M	95.0	10/11/84 03/14/85	125.5(9) 105.5(9)	-29.9 -9.5	5110	
01N/07E-26M03 M	50.0	10/12/84 03/13/85	103.5 84.0	-53.5 -34.0	5110	01N/09E-35K01 M	165.0	10/16/84 03/19/85	151.6 140.9	13.4 24.5	5050	
01N/07E-27H02 M	44.0	10/12/84 03/13/85	MM-3 78.0(6)	-34.0	5110	01N/09E-36P01 M	147.2	10/11/84 03/15/85	122.7 116.7	24.5 30.5	5110	
01N/07E-28H01 M	36.0	10/01/84 03/14/85	MM-7 60.4	-24.4	5001 5050	02N/09E-28H01 M	179.5	10/12/84 04/08/85	MM-0 195.1		-15.6	5110
01N/07E-32A01 M	29.5	10/01/84 03/18/85	MM-7 48.1	-18.6	5001 5050	02N/09E-32001 M	154.2	03/20/85	163.6		-9.4	5050
01N/07E-35M01 M	49.1	10/12/84 03/13/85	105.6(6) 97.6(6)	-56.5 -48.5	5110	01S/07E-01J01 M	55.4	10/12/84 03/13/85	96.0(6) 76.0(6)	-42.6 -22.6	5110	
01N/08E-09L01 M	71.0	10/16/84 03/19/85	112.7 102.0	-41.7 -31.0	5050	01S/07E-03A01 M	43.1	10/12/84 03/13/85	71.5 59.0	-28.4 -15.9	5110	
01N/08E-13J01 M	94.8	10/12/84 03/14/85	122.5 121.5	-27.7 -26.7	5110	01S/07E-05A01 M	29.9	10/11/84 03/12/85	43.4 39.4	-14.5 -10.5	5110	
01N/08E-13P02 M	90.5	10/18/84 03/19/85	122.3 107.6	-31.8 -17.1	5050	01S/07E-06P02 M	23.5	10/11/84 03/12/85	MM-4 29.5		-6.0	5110
01N/08E-15J01 M	82.0	10/18/84 01/24/85 02/22/85 03/25/85 04/25/85 05/24/85 06/24/85 07/25/85 08/23/85 09/23/85	121.0(4) 112.2 109.7 106.7 106.8(4) 110.7 114.6 117.8 121.2 124.5(4)	-39.0 -30.2 -27.7 -24.7 -24.8 -28.7 -32.6 -35.8 -39.2 -42.5	5050	01S/07E-08J02 M	30.9	10/11/84 03/12/85	27.9 26.9	3.0 4.0	5110	
01N/08E-16P01 M	73.0	10/01/84 03/19/85	MM-7 100.6	-27.6	5001 5050	01S/07E-09M01 M	35.0	10/25/84 03/14/85	32.9 31.8	2.1 3.2	5050	
01N/08E-17001 M		10/18/84	MM-4		5110	01S/07E-10A01 M	41.0	10/17/84 01/24/85 02/22/85 03/25/85 04/25/85 05/30/85 06/24/85 07/25/85 09/23/85	47.2 51.2 50.0 49.2 49.5 58.0 58.7 62.3 60.5	-16.2 -10.2 -9.0 -4.2 -9.5 -17.0 -17.7 -21.3 -19.5	5050	
01N/08E-26A02 M	88.7	10/18/84 04/01/85	MM-4 115.4	-24.7	5110	01S/07E-12M01 M	51.0	10/12/84 03/13/85	75.3 68.3	-24.3 -17.3	5110	
01N/09E-27R02 M	78.0	10/11/84 03/14/85	116.0 101.0	-38.0 -23.0	5110	01S/07E-13J01 M	48.0	10/11/84 03/12/85	53.0 49.0	-5.0 -1.0	5110	
01N/09E-28M01 M	71.0	10/01/84 03/18/85	MM-7 96.0	-25.0	5001 5050	01S/08E-09M01 M	95.4	10/12/84 03/13/85	98.5 80.5	-43.1 -23.1	5110	
01N/08E-29M02 M	64.1	10/11/84 03/14/85	110.1 116.1	-46.0 -52.0	5110	01S/09E-09A01 M	71.0	10/12/84 03/13/85	114.0 100.5	-43.0 -29.5	5110	
01N/08E-30M01 M	57.0	10/01/84 03/14/85	MM-7 88.7	-31.7	5001 5050	01S/08E-11F01 M	89.0	10/12/84 03/15/85	108.2 103.7	-29.2 -23.7	5110	
01N/09E-33H01 M	71.6	10/11/84 03/14/85	112.5(6) 104.5(6)	-40.9 -34.9	5110	01S/08E-15A01 M	73.5	10/17/84 03/18/85	88.5 81.2	-15.0 -7.7	5050	
01N/09E-35R02 M	82.0	10/11/84 03/14/85	121.0(6) 101.0	-39.0 -19.0	5110	01S/08E-29H01 M		10/11/84 03/12/85	MM-6 MM-4		5110	
01N/08E-36F01 M	87.0	10/10/84 03/14/85	126.0 120.0	-39.0 -33.0	5110	01S/08E-30C02 M	52.0	10/11/84 03/12/85	37.5 36.5	14.5 15.5	5110	
01N/09E-01C01 M	191.0	10/12/84 03/13/85	174.7 165.7	14.3 25.3	5110	01S/09E-02001 M	146.0	10/11/84 03/15/85	117.5 111.5	28.5 34.5	5110	
01N/09E-05R01 M	119.5	03/20/85	153.1	-10.6	5050	01S/09E-02E01 M	162.0	10/11/84 03/15/85	124.7 120.7	33.3 41.3	5110	
01N/09E-05J01 M	153.0	10/12/84 03/14/85	182.5(6) 177.5(6)	-29.5 -24.5	5110	01S/09E-05A01 M	105.7	10/12/84 03/15/85	97.0(8) 97.0(8)	38.7 40.7	5110	
01N/09E-06R01 M	116.0	10/01/84 03/20/85	MM-7 151.1	-15.1	5001 5050	01S/09E-07H01 M	94.2	10/12/84 03/15/85	97.8(3) 98.5(3)	8.7 7.7	5110	
01N/09E-09G01 M	159.0	10/11/84	163.8	-7.8	5050	01S/09E-09R01 M	127.6	10/12/84 03/15/85	104.0 195.0	23.6 22.6	5110	
01N/09E-13N01 M	142.0	10/12/84 03/14/85	120.0(4) 115.0(4)	22.0 27.0	5110	01S/09E-11J02 M	132.0	10/10/84 03/15/85	97.8 95.8	44.2 46.2	5110	
01N/09E-14R02 M	120.0	10/12/84 03/14/85	MM-0 114.0(4)	6.0	5110	01S/09E-14R03 M	103.8	10/12/84 03/15/85	104.8 102.8	-1.0 1.0	5110	
01N/09E-17N01 M	103.0	10/12/84 04/08/85	MM-7 112.8(8)	-9.8	5110	01S/09E-19G02 M	97.5	10/11/84 03/10/85	73.5 90.4	24.0 7.0	5110	
01N/09E-17H01 M	102.2	10/12/84 04/08/85	122.7 113.7	-20.4 -11.5	5110							
01N/09E-19C01 M	98.4	10/12/84 03/14/85	143.5 142.0	-45.0 -43.5	5110							

TABLE (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
G-08 G-08.A	NORTH LA MONTAIN NB LAKE TAHOE HU SOUTH TAHOE HA					G-08 G-08.A	NORTH LA MONTAIN NB SUSANVILLE HU HERLONG HA				
114/18E-03M01 M	6396.1	05/22/85 09/17/85	17.1 21.4	6379.0 6374.7	5050	214/18E-19J01 M	4920.0	10/33/84 03/26/85	55.7 41.0	4864.3 4879.0	5050
114/18E-17E01 M	6473.0	05/22/85 09/17/85	9.1 13.9	6465.9 6459.1	5050	224/17E-26N01 M	4900.0	10/33/84 03/26/85	NM-3 34.8	4931.2	5050
124/18E-02C01 M	6274.3	05/22/85 09/17/85	36.2 37.1	6238.1 6237.2	5050	224/17E-26J01 M	4980.0	10/33/84 03/26/85	68.2 (1) 29.6	4911.8 4900.4	5050
124/18E-02C09 M	6291.1	05/22/85 09/17/85	69.2 71.0	6221.9 6220.1	5050	234/17E-02N01 M	4570.0	10/33/84 03/26/85	75.8 NM-9	4544.5	5050
124/18E-03A01 M	6270.4	05/22/85 09/16/85	64.5 62.7	6205.9 6207.7	5050	254/17E-20R01 M	4289.3	10/34/84 04/35/85	23.6 20.3	4236.9 4260.4	5050
124/18E-03A02 M	6239.7	05/22/85 09/16/85	8.3 8.2	6231.4 6231.5	5050	264/16E-03D02 M	4080.0	10/04/84 04/35/85	38.6 35.2	4041.4 4044.8	5050
124/18E-05C02 M	6257.6	05/22/85 09/16/85	21.5 22.6	6236.1 6233.0	5050	264/16E-08N01 M	4050.0	10/05/84 03/26/85	27.8 (8) 26.2	4022.2 4023.8	5050
124/18E-05K01 M	6271.0	05/22/85 09/16/85	35.2 36.1	6235.8 6234.9	5050	274/15E-29P01 M	3987.0	10/02/84 03/26/85	30.7 2.0	3956.3 3985.0	5050
124/18E-09D03 M	6298.0	05/22/85 09/16/85	65.2 63.4	6232.8 6234.6	5050	274/16E-30M01 M	3990.0	10/34/84 04/35/85	5.8 3.7	3993.2 3993.3	5050
124/18E-20M02 M	6280.0	05/22/85 09/16/85	9.9 (1) 8.0	6270.1 6272.0	5050	G-08.B	SUSAN RIVER HA				
124/18E-21D01 M	6283.0	05/22/85 09/16/85	NM-1 19.8	6263.2	5050	284/13E-13R01 M	4065.6	10/32/84 04/04/85	24.7 12.9	4043.9 4055.7	5050
124/18E-29L01 M	6340.0	05/22/85 09/17/85	17.9 21.4	6322.1 6318.6	5050	284/13E-14O02 M	4105.3	10/32/84 03/26/85	37.0 28.2	4068.3 4077.1	5050
134/17E-35G01 M	6278.6	05/22/85 09/16/85	27.6 29.1	6251.0 6249.3	5050	284/14E-18K01 M	4003.1	10/02/84 03/26/85	8.9 3.5	3994.2 3994.6	5050
134/18E-27K01 M	6276.7	05/22/85 09/16/85	30.6 31.0	6246.1 6245.7	5050	294/12E-16M02 M	4240.0	10/04/84 04/04/85	14.9 NM-6	4225.1	5050
134/18E-32M02 M	6230.0	05/22/85 09/16/85	10.9 11.6	6219.1 6218.4	5050	294/13E-02L01 M	4069.4	10/03/84 03/27/85	5.8 2.6	4063.6 4066.8	5050
134/18E-33M01 M	6253.1	05/22/85 09/16/85	27.7 28.6	6225.4 6224.5	5050	294/13E-07O01 M	4098.8	10/03/84 03/27/85	7.0 3.0	4091.8 4095.8	5050
134/18E-33R05 M		05/22/85 09/17/85	NM-2 NM-2		5050	294/13E-14J01 M	4136.0	10/03/84 03/28/85	65.0 61.5	4071.0 4074.5	5050
134/18E-34M02 M	6262.8	05/22/85 09/16/85	26.3 29.8	6236.5 6233.0	5050	294/14E-20A02 M	4050.0	10/03/84 03/27/85	12.8 10.8	4037.2 4039.2	5050
						294/14E-22O01 M	4022.8	10/33/84 03/26/85	13.7 7.6	4007.3 4015.2	5050
						294/15E-21N01 M	4000.0	10/32/84 03/27/85	14.4 6.7	3983.6 3993.3	5050
						G-08.C	SNOW STORM MOUNTAIN HA				
						314/15E-26N01 M	4445.0	10/35/84	131.5	4313.5	5050

TABLE D (CONTINUED)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
G 6-10	NORTH LAMONTAN HA MADELINE PLAINS HI					G 6-12 6-12.4	NORTH LAMONTAN HA SURPRISE VALLEY HI RAVE CREEK HA				
15N/13E-26J02 H	3296.0	10/03/84 03/02/85	47.3 47.2	3249.5 3248.8	5050	40N/16E-23P01 H	4590.0	10/17/84 03/26/85	41.9 35.0(19)	4546.1 4555.0	5050
						40N/16E-36G02 H	4624.0	10/17/84 03/25/85	71.6 63.4	4553.4 4561.6	5050
						40N/16E-36R02 H	4593.0	10/17/84 03/26/85	51.4 44.6(19)	4538.5 4545.4	5050
						40N/17E-19M02 H	4535.0	10/17/84 03/26/85	21.4 -2.1	4513.6 4535.1	5050
						40N/17E-31E02 H	4574.0	10/17/84 03/26/85	34.3 44-3	4539.7 4539.7	5050
						40N/17E-31F01 H	4548.1	10/17/84 03/26/85	10.4 14.5	4537.3 4529.6	5050
						40N/17E-31M01 H	4583.0	10/17/84 03/26/85	41.2 36.1	4538.8 4543.9	5050
						40N/17E-31P01 H	4554.0	10/17/84 03/26/85	19.1 10.5	4536.9 4541.5	5050
						G-12.6	CEARVILLE HA				
						40N/16E-13G01 H	4540.0	10/17/84 03/26/85	22.9 4.7	4517.5 4533.3	5050
						40N/15E-23B01 H	4673.0	10/17/84 03/26/85	67.6 68.0	4603.4 4605.0	5050
						41N/16E-04K01 H	4650.0	11/31/84 04/18/85	65.0 43.0	4585.0 4607.0	2923
						41N/16E-09A02 H	4683.0	11/31/84 04/18/85	110.4 91.5	4569.5 4584.5	2923
						41N/16E-14M01 H	4635.0	11/31/84 04/18/85	74.0 64.0	4541.0 4571.0	2923
						41N/16E-23J01 H	4590.0	11/31/84 04/18/85	4.5 2.0	4549.5 4548.0	2923
						41N/16E-33O02 H	4621.5	10/17/84 03/26/85	43.5 39.5	4578.0 4582.0	5050
						41N/16E-35O03 H	4689.0	11/31/84 04/18/85	43.0 35.0	4642.0 4650.0	2923
						41N/16E-35F01 H		11/01/84 04/18/85	44-9 10.5		2923
						42N/16E-04K01 H	4543.0	10/17/84 03/26/85	31.2 19.5	4508.8 4520.5	5050
						42N/16E-05C01 H	4675.0	10/31/84 04/18/85	118.5 106.5	4556.5 4568.5	2923
						42N/16E-05F01 H	4661.0	10/31/84 04/18/85	43.0 17.0	4622.0 4648.0	2923
						42N/16E-08M01 H	4652.0	10/31/84 04/18/85	21.5 19.5	4630.5 4632.5	2923
						42N/16E-08O01 H	4614.8	10/31/84 04/18/85	107.4 46	4512.4 4614.2	2923
						42N/16E-09X01 H	4534.4	10/31/84 04/18/85	-5.9 -5.0	4540.3 4539.4	2923
						42N/16E-16P01 H	4594.0	10/17/84 03/26/85	21.7 10.0	4534.3 4546.0	5050
						42N/16E-17G01 H	4642.0	11/02/84 04/18/85	12.4 10.0	4627.5 4630.0	2923
						42N/16E-20C01 H	4630.0	11/02/84 04/18/85	10.0 10.0	4620.0 4620.0	2923
						42N/15E-29G01 H	4665.0	11/02/84 04/18/85	58.7 29.0	4607.0 4636.0	2923
						42N/15E-29H02 H	4690.0	11/31/84 04/18/85	74.0 2.0	4612.0 4645.0	2923
						42N/16E-29G01 H	4656.6	11/31/84 04/18/85	46.7 44.7	4609.9 4611.9	2923
						42N/16E-33B02 H	4563.0	10/17/84 03/26/85	13.7 10.7	4546.3 4549.3	5050
						43N/15E-05L01 H	4594.0	10/31/84 04/18/85	44.0 40.0	4551.0 4555.0	2923
						43N/15E-05M01 H	4616.0	10/31/84 04/18/85	34.0 39.5	4542.0 4576.5	2923
						43N/16E-07F01 H	4644.0	10/31/84 04/18/85	19.5 10.0	4643.9 4675.0	2923
						43N/15E-20O01 H	4590.0	10/31/84 04/18/85	79.0 76.0	4611.0 4614.0	2923
						43N/16E-20G01 H	4603.0	04/13/85	49.0	4541.0	2923
						43N/15E-20H01 H	4545.0	10/31/84 04/18/85	70.5 51.5	4514.5 4524.5	2923

TABLE D (CONTINUED)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY	STATE WELL NUMBER	GROUND SURFACE ELEVATION	DATE	GROUND TO WATER	WATER SURFACE ELEV.	AGENCY
G-12 G-12.A	NORTH LA MONTAN NB SUBPBISE VALLEY NW CEDARVILLE MA										
43N/10E-28001 M	4580.0	04/18/85	29.0	4551.0	2925						
43N/10E-28M02 M	4585.0	10/31/84 04/18/85	72.5 52.5	4512.5 4532.5	2925						
43N/10E-29C01 M	4645.0	10/31/84 04/18/85	130.5 88.0	4514.5 4597.0	2925						
43N/10E-29K01 M	4610.0	10/31/84 04/18/85	97.5 88.0	4512.5 4522.0	2925						
43N/10E-32K01 M	4640.0	10/18/84 03/26/85	114.5 105.4	4525.5 4534.6	5050						
43N/17E-20K01 M	4579.0	10/17/84 03/26/85	52.0 48.2	4527.0 4530.8	5050						
43N/17E-21L01 M	4580.0	10/17/84 03/26/85	52.0 50.0	4528.0 4530.0	5050						
G-12.C	FORT BLOWELL MA										
43N/10E-06R02 M	4615.0	10/17/84 03/26/85	52.2 39.8	4562.8 4575.2	5050						
44N/15E-25D01 M	4553.4	10/25/84 04/18/85	23.5 15.5	4529.9 4517.9	2925						
44N/15E-36D01 M	4640.0	10/17/84 03/26/85	78.5 74.8	4561.5 4561.2	5050						
44N/10E-31R01 M	4494.3	10/31/84 04/18/85	6.8 4.3	4487.5 4490.0	2925						
46N/10E-03R01 M	4710.0	10/25/84 04/18/85	161.0 NM-7	4549.0	2925						
46N/10E-04D01 M	4600.0	10/25/84 04/18/85	59.0 56.0	4541.0 4544.0	2925						
46N/10E-18R01 M	4512.0	04/18/85	5.0	4507.0	2925						
46N/10E-18P01 M	4520.0	10/25/84 04/18/85	15.0 12.5	4505.0 4507.5	2925						



APPENDIX E

GROUND WATER QUALITY

APPENDIX E

GROUND WATER QUALITY

Appendix E presents the results of chemical analyses of ground water samples collected in Northeastern California from October 1, 1984 to September 30, 1985. The data are grouped in four categories:

Table	Title
E-1	Mineral Analyses of Ground Water
E-2	Minor Element Analyses of Ground Water
E-3	Miscellaneous Analyses of Ground Water
E-4	Nutrient Analyses of Ground Water

Ground water quality stations are listed in the tables by ascending areal code. The areal code is explained on page 2. Areal code numbers appear in the tables to the left of the hydrologic area names, and the data listed thereunder are in that hydrologic area. The number of quality stations precludes plotting each individual well on maps in this publication. Instead, Figure 8 shows the location of the ground water basins in which the water samples were taken.

To facilitate station location, the cross references on the following page relate hydrologic areas to the ground water basins shown on Figure 8 and lists the respective areal codes. The location and definition of any hydrologic area may be determined by entering Figure 2 (page 4) with the respective areal code. The cross reference also lists the page numbers on which the analyses may be found. (The number of pages referenced indicates the extent of analyses for each station.)

The location of a well can be approximated by the well number. The numbering system for the wells is described in Appendix D, page 205.

In order to increase the amount of information in the water quality tables, some columns have multiple headings, and data are tabulated respectively. For example, the first column of Table E-1 shows the date of sampling printed above the time of sampling so the data are tabulated in that order. If a part of the values for a multiple heading column are obtained, they will appear in the column with respect to the heading positions. If dashes (or no data) appear in a column, it means no data were obtained.

Abbreviations and codes used in the tables are explained at the beginning of each table.

Appendix E Cross Reference

Ground Water Basin - Areal Code

Ground Water Basin No.		Hydrologic Area*		Areal Code**		Analysis on page		Ground Water Basin No.		Hydrologic Area*		Areal Code**		Analysis on page	
		SACRAMENTO	HB	A	262,303, 311,313					TEHAMA	HU	A-13	278,304, 311,313		
		SACRAMENTO DELTA	HU	A-01	262,303	5-21	Sacramento Valley	Lower Stony Creek	HA	A-13.A	278,313				
		VALLEY PUTAH-CACHE	HA	A-02	263,303	5-21	Sacramento Valley	Red Bluff	HA	A-13.B	279,304, 311,313,				
5-21	Sacramento Valley	Elmira	HA	A-02.A	263,303			STONE CREEK	HU	A-14	286,305				
5-21	Sacramento Valley	Lower Putah Creek	HA	A-02.B	264	5-63	Stoneyford Town Area	Foot Springs	HA	A-14.C	286,305				
5-21	Sacramento Valley	Lower Cache Creek	HA	A-02.C	264	5-63	Stoneyford Town Area	Middle Fork Stoney	HSA	A-14.C1	286,305				
		PUTAH CREEK	HU	A-03	264			REDDING	HU	A-17	286				
5-18	Coyote Valley	Upper Putah Creek	HA	A-03.B	264	5-6	Redding Basin	Enterprise Flat	HA	A-17.A	286				
5-19	Collyson Valley					5-6	Redding Basin	Lower Cottonwood	HA	A-17.B	287				
5-67	Clear Lake Pleistocene Volcanics							PIT RIVER	HU	A-23	287				
		CACHE CREEK	HU	A-04	264,303, 313			McArthur	HA	A-23.C	287				
		Upper Cache Creek	HA	A-04.D	264,303, 313	5-5	Fall River Valley	Big Lake	HSA	A-23.C1	287				
		Lower Lake	HSA	A-04.D1	264	5-40	Hot Springs Valley	Big Lake	HSA	A-23.C1	287				
5-30	Lower Lake Valley	Lakeport	HSA	A-04.D4	265,303, 313	5-4	Big Valley	Big Valley	HA	A-23.D	287				
5-14	Scott Valley							Bleber	HSA	A-23.D1	287				
5-15	Kelseyville Valley (Big Valley)					5-2	Alturas Basin	Upper Pit River	HA	A-23.E	288				
5-13	Upper Lake Valley	Upper Lake	HSA	A-04.D5	266	5-2.01	S. Fork Pit River and Alturas Area	Canby	HSA	A-23.E	288				
		VALLEY-AMERICAN	HU	A-05	267			Alturas	HSA	A-23.E2	288				
5-21	Sacramento Valley	Morrison Creek	HA	A-05.A	267	5-1	Goose Lake Valley	LAKEVIEW	HU	A-24	289				
5-21	Sacramento Valley	Franklin	HSA	A-05.A1	267			Davis Creek	HA	A-24.A	289				
5-21	Sacramento Valley	Florin	HSA	A-05.A2	267			SAN JOAQUIN	HB	B	290,306				
5-21	Sacramento Valley	Coon American	HA	A-05.B	267	5-22	San Joaquin Valley	SAN JOAQUIN DELTA	HU	B-01	290,306				
5-21	Sacramento Valley	Lower American	HSA	A-05.B1	267	5-22	San Joaquin Valley	NORTH DIABLO RANGE	HU	B-02	292				
5-21	Sacramento Valley	Pleasant Grove	HSA	A-05.B2	267	5-22	San Joaquin Valley	NORTH VALLEY FLOOR	HU	B-03	292,306				
		COLUSA BASIN	HU	A-07	268,304, 311,313	5-22	San Joaquin Valley	Lower Consumnes - Dry	HA	B-03.A	292				
5-21	Sacramento Valley	Sycamore-Sutter	HA	A-07.A	268	5-22	San Joaquin Valley	Herald	HSA	B-03.A2	292				
5-21	Sacramento Valley	Glenn-Colusa	HA	A-07.B	269,304, 311,313	5-22	San Joaquin Valley	Lower Mokelumne	HA	B-03.B	293,306				
5-21	Sacramento Valley	Colusa Trough	HSA	A-07.B1	269,304, 311,313	5-22	San Joaquin Valley	Lower Calaveras	HA	B-03.C	293,306				
5-21	Sacramento Valley	Orland	HSA	A-07.B2	270	5-22	San Joaquin Valley	Duck-Littlejohns	HA	B-03.D	294,307				
5-21	Sacramento Valley	Sutter Bypass	HA	A-07.C	270			MIDDLE SIERRA	HU	B-04	295,307				
5-21	Sacramento Valley	Butte Basin	HA	A-07.D	270,304, 311,313			Sutter Creek	HA	B-04.B	295,307				
		MARYSVILLE	HU	A-08	273,304, 311,313			NORTH LAHONTAN	HB	G	296,308, 317				
5-21	Sacramento Valley	Lower Bear River	HA	A-08.A	273			SUSANVILLE	HU	G-08	296,308				
5-21	Sacramento Valley	Olivehurst	HA	A-08.B	273			Herlong	HA	G-08.A	296,308				
5-21	Sacramento Valley	Lower Yuba River	HA	A-08.C	273,304	6-4	Honey Lake Valley	Susan River	HA	G-08.B	297,308				
5-21	Sacramento Valley	Lower Feather River	HA	A-08.D	273,304, 311,313	6-92	Pine Creek Valley	Eagle Drainage	HA	G-08.C	299,308, 317				
		FEATHER RIVER	HU	A-11	273	6-93	Harvey Valley	Antelope Mountain	HSA	G-08.C1	300,308, 317				
		Middle Fork Feather	HA	A-11.C	273			Snow Storm Mountain	HA	G-08.D	300				
5-11	Mohawk Valley	Sloat	HSA	A-11.C2	273	6-100	Secret Valley								
5-60	Humbug Valley	Sloat	HSA	A-11.C2	273	6-103	Modoc Plateau								
5-59	Grizzly Valley	Lake Davis	HSA	A-11.C3	273		Pleistocene Volcanic Area								
5-12	Sierra Valley	Sierra Valley	HSA	A-11.C4	273			MADLINE PLAINS	HU	G-10	300				
		North Fork Feather	HA	A-11.D	277	6-2	Madeline Plains	SURPRISE VALLEY	HU	G-12	300				
5-7	Lake Almanor Valley	Mount Harkness	HSA	A-11.D4	277	6-1	Surprise Valley	Bare Creek	HA	G-12.A	300				
		East Branch				6-1	Surprise Valley	Cedarville	HA	G-12.B	300				
5-10	American Valley	North Fork	HA	A-11.E	278	6-1	Surprise Valley	Fort Bidwell	HA	G-12.C	301				
5-9	Indian Valley	Quincy	HSA	A-11.E2	278										
		Crescent Mills	HSA	A-11.E3	278										

*See page 2.

**See figure 2.

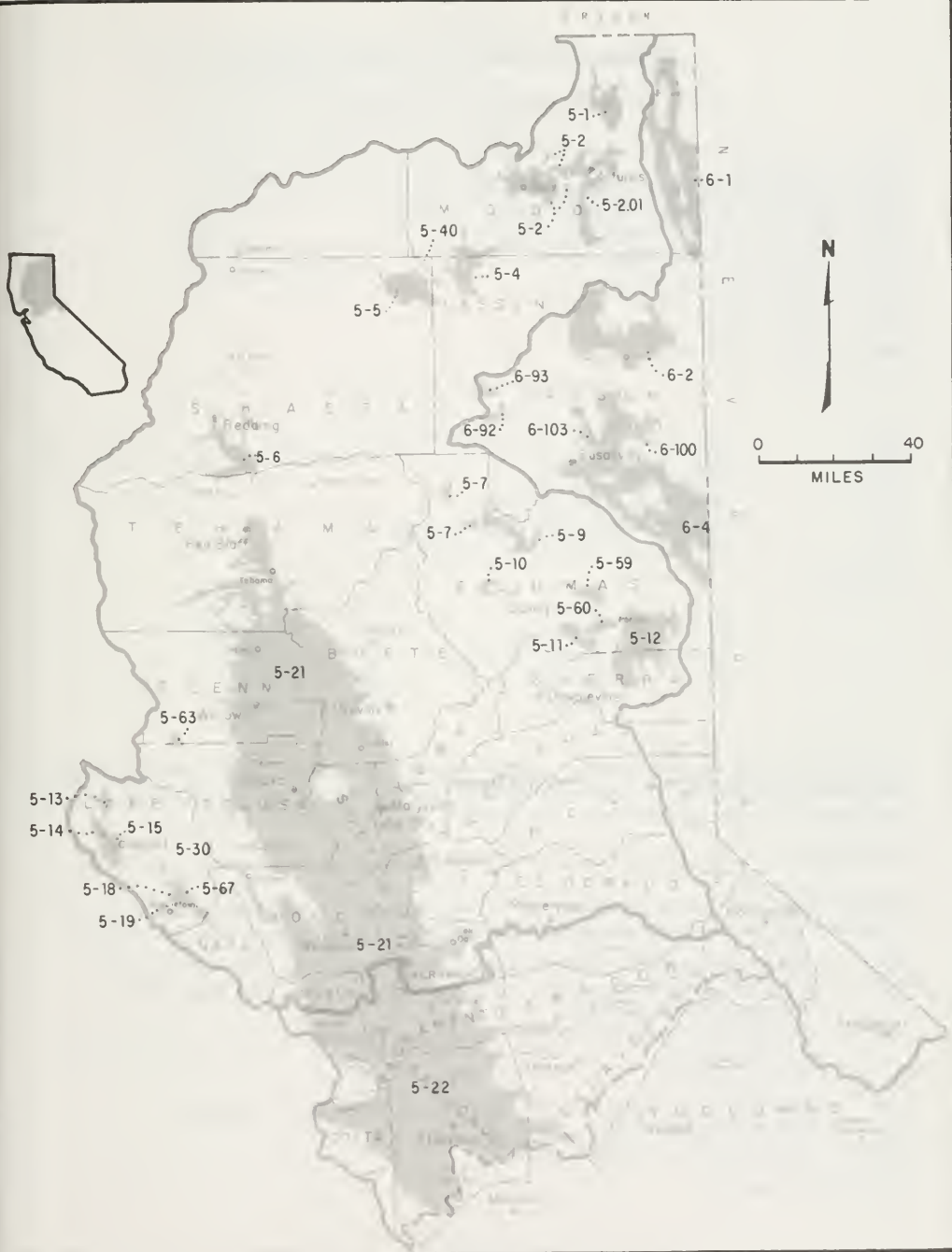


Figure 8 LOCATION OF GROUND WATER BASINS - QUALITY

TABLE E-I

MINERAL ANALYSES OF GROUND WATER

Lab and Sampler Agency Code

2328- Butte County
 5050 - California Department of Water Resources
 5060 - California Department of Health, Berkeley Laboratory
 5684 - Sierra Environmental Monitoring Laboratory
 5701 - California Water Service Company
 5867 - Fruit Growers Laboratory
 7748 - California Department of Forestry
 8200 - Colusa County
 9580 - Monarch Laboratory

Abbreviations and Constituents

TIME - Pacific Standard Time on a 24-hour clock
 TEMP - Water temperature at time of sampling in degrees Fahrenheit (F) or Celcius (C)
 Field - Determined in the field
 Laboratory - Determined in the laboratory
 pH - Measure of acidity or alkalinity of water
 EC - Electrical conductance in microsiemens at 25°C

Constituents:

B	-	Boron	K	-	Potassium
CA	-	Calcium	MG	-	Magnesium
CACO3	-	Calcium Carbonate	NA	-	Sodium
CL	-	Chloride	NO3	-	Nitrate
F	-	Fluoride	SIO2	-	Silica
			SO4	-	Sulfate

Boron, Fluoride, and Silica are reported in milligrams per liter. The other minerals are reported in each of three units: milligrams per liter, milliequivalents per liter, and percent reactance value; accordingly, each observation can use three lines of tabulation.

MILLIEQUIVALENTS PER LITER is the concentration in Mg/l divided by the equivalent weight of the ion.

PERCENT REACTANCE VALUE is determined by dividing the sum of the cations or anions in milliequivalents per liter into each constituent in milliequivalents per liter, arriving at a percentage.

TURB - Jackson turbidity units measured with a Hach nephelometer (A); if in the field, (F)
 TDS - Gravimetric determination of total dissolved solids at 180°C (value followed by * is a determination at 105°C)
 SUM - Total dissolved solids by summation of analyzed constituents minus 40 percent of the carbonate weight
 TH - Total hardness
 NCH - Noncarbonate hardness - any excess of total hardness over total alkalinity
 SAR - Sodium adsorption ratio
 ASAR - Adjusted sodium adsorption ratio

(Continued on next page)

- REM - Remarks; code letters are:
- T - Total dissolved solids and the calculated sum of constituents are not within 20 percent of each other.
 - S - The anion sum and cation sum for a complete analysis is not within the prescribed tolerance of ± 5 percent.
 - X - The field EC and the lab EC are not within 20 percent of each other.
 - C - The electrical conductivity divided by the EC-EPM factor (or, if absent, 100) is not within 20 percent of the average of the cation sum and anion sum for complete analysis.
 - E - Total dissolved solids (TDS) value is not within the range of 0.35 to 0.70 of the electrical conductivity.

TABLE E-1
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY		MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				REMARKS		
			PH	EC	CA	MG	NA	K	PERCENT CACO3	SO4	CL	NO3	TDS SIM	TH NCH	SAR ACAR				
A																			
A-01																			
SACRAMENTO NR																			
SACRAMENTO DELTA HU																			
05N/01E-23R01 M																			
07/24/85	5050		8.5	828	6.0	8.0	17C	--	301	--	26	--	--	--		48	10.7		
1245	5050		9.0	809	4.30	8	7.4C	--	6.01	--	.73	--	--	--		0	17.2		
05N/05E-17L02 M																			
02/20/85	5050			1162	--	--	--	--	--	--	--	--	--	--					
1525	0000																		
04/24/85																			
1600	5050			1244	--	--	--	--	--	--	--	--	--	--					
06/04/85																			
0930	5050			1256	--	--	--	--	--	--	--	--	--	--					
07/02/85																			
1300	5050			1294	--	--	--	--	--	--	--	--	--	--					
07/31/85																			
1930	5050			1324	--	--	--	--	--	--	--	--	--	--					
05N/05E-17N01 M																			
02/20/85	5050			1006	--	--	--	--	--	--	--	--	--	--					
1415	0000																		
04/24/85																			
1345	5050			1134	--	--	--	--	--	--	--	--	--	--					
06/03/85																			
1100	5050			1186	--	--	--	--	--	--	--	--	--	--					
07/02/85																			
1430	5050			1122	--	--	--	--	--	--	--	--	--	--					
07/31/85																			
1015	5050			1138	--	--	--	--	--	--	--	--	--	--					
05N/05E-17N02 M																			
02/20/85	5050			1454	--	--	--	--	--	--	--	--	--	--					
1430	0000																		
04/24/85																			
1515	5050			1304	--	--	--	--	--	--	--	--	--	--					
06/04/85																			
0945	5050			1324	--	--	--	--	--	--	--	--	--	--					
07/02/85																			
1400	5050			1356	--	--	--	--	--	--	--	--	--	--					
07/31/85																			
1640	5050			1318	--	--	--	--	--	--	--	--	--	--					
05N/05E-18R01 M																			
02/20/85	5050			1001	--	--	--	--	--	--	--	--	--	--					
1215	0000																		
04/24/85																			
1100	5050			958	--	--	--	--	--	--	--	--	--	--					
06/03/85																			
1315	5050			948	--	--	--	--	--	--	--	--	--	--					
07/01/85																			
0930	5050			937	--	--	--	--	--	--	--	--	--	--					
07/31/85																			
0900	5050			807	--	--	--	--	--	--	--	--	--	--					
05N/05E-18R01 M																			
02/20/85	5050			1142	--	--	--	--	--	--	--	--	--	--					
1315	0000																		
04/24/85																			
1015	5050	65 F		955	--	--	--	--	--	--	--	--	--	--					
06/03/85																			
1410	5050	14 C		945	--	--	--	--	--	--	--	--	--	--					
07/01/85																			
1015	5050			801	--	--	--	--	--	--	--	--	--	--					

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAP	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN CA MG NA K	MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALU CACO3 SO4 CL NO3	MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALU CACO3 SO4 CL NO3	REM
A-02 A-02.A SACRAMENTO RR VALLEY PUTAM-CACHE HU ELMIRA NA							
07/24/85 1015	5050 5050		7.5 6.1	729 650	4.2 2.2	27 2.26	217 4.34
07/24/85 0845	5050 5050	67 19	F C	7.6 8.1	541 513	32 1.60	196 3.92
07/24/85 1540	5050 5050	74 23	F C	7.5 8.3	375 371	41 2.05	194 3.08
07/24/85 1445	5050 5050	65 16	F C	7.3 8.4	397 387	22 1.10	188 3.76
A-02.B LOWER PUTAM CREEK NA							
08/20/85 1000	5050 5050	64 18	F C	7.7 8.3	1768 1780	20 1.60	340 6.79
08/20/85 1130	5050 5050	68 20	F C	8.1 8.6	413 441	31 1.55	190 3.00
08/20/85 1230	5050 5050	65 18	F C	7.5 8.6	658 660	72 3.59	273 5.45
A-02.C LOWER CACHE CREEK NA							
08/21/85 1119	5050 5050	66 20	F C	8.3 8.6	353 381	17 .85	167 3.34
08/21/85 1030	5050 5050	66 19	F C	7.9 8.6	528 553	44 2.20	219 4.38
A-03 A-03.B PUTAM CREEK HU UPPER PUTAM CREEK NA							
08/20/85 1030	5050 5050	64 18	F C	6.9 8.6	294 297	11 .55	147 2.94
08/20/85 1315	5050 5050	63 17	F C	7.1 8.7	527 520	12 .60	268 5.75
08/20/85 1145	5050 5050	64 18	F C	6.7 8.5	198 202	10 .50	98 1.96
08/20/85 1230	5050 5050	66 19	F C	7.1 8.6	291 293	10 .50	130 2.78
A-04 A-04.D A-04.O1 12M/07M-01M02 M CACHE CREEK HU UPPER CACHE CREEK NA LOWER LAKE MSA							
07/24/85 0910	5050 0000	61.0F 17.2C	6.5	395			
07/25/85 0930	5050 0000	66.0F 18.9C	6.6	480			
07/24/85 0840	5050 5050	7.0 8.6	700 687	34 1.70	20 1.64	83 3.61	144 2.88
07/24/85 0810	5050 0000	69.0F 20.5C	7.0	1900			
07/23/85 1645	5050 0000	69.0F 20.0C	7.1	410			

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER

TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				REMARKS	
					CA	MG	NA	K	CaCO3	SO4	CL	NO3	TURB	SiO2	TDS SUM	TH MCM		S&P ASAR
A A-04 A-04.0 A-04.01 13N/07W-15M01 M SACRAMENTO HR CACHE CREEK MI UPPER CACHE CREEK HA LOWER LAKE HSA																		
07/23/85 1740	5050 5050		6.8 6.4	220 237	14 .70	7.0 .58	26 1.13	.6 .02	88 1.76	4.0 .08	13 .37	8.8 .14	.7 .6	-- --	156 127	64 0	1.4 1.8	
13N/07W-21J02 M																		
07/23/85 1720	5050 0000		6.9	610	--	--	--	--	--	--	--	--	--	--	--	--	--	
13N/07W-22R03 M																		
07/23/85 1700	5050 0000		6.8 6.7	500 480	37 1.65	25 2.06	27 1.17	1.4 .04	193 3.86	--	18 .51	27.0 .44	-- --	-- --		196 3	0.8 1.7	
A-04.04 11N/08W-05R01 M LAKEPORT HSA																		
10/03/84 1600	5050 5050		60.8F 16.0C	7.3 7.3	361 361	29 1.45	16 1.32	9.0 .39	.7 .02	-- --	18 .37	3.0 .08	-- --	.0 --	-- --		159 0.0	
12/04/84 1230	5050 5050		39.0F 15.0C	7.2 7.2	390 390	43 2.25	16 1.32	9.0 .35	.8 .02	-- --	24 .50	2.0 .06	-- --	.1 --	-- --		176 0.0	
02/05/85 1430	5050 5050		39.9F 13.5C	7.3 7.3	395 395	41 2.09	16 1.32	9.0 .39	.7 .02	-- --	21 .44	3.0 .08	-- --	.1 --	-- --		168 0.0	
04/03/85 1040	5050 5050		39.9F 15.3C	7.2 7.2	375 375	36 1.80	16 1.32	10 .44	-- --	-- --	19 .40	3.0 .08	-- --	.1 --	-- --		156 0.0	
06/04/85 1430	5050 5050		60.8F 16.0C	7.2 7.2	395 395	46 2.30	16 1.32	11 .46	-- --	-- --	19 .40	3.0 .14	-- --	.1 --	-- --		161 0.0	
08/07/85 1130	5050 5050		60.8F 16.0C	7.1 7.1	395 395	36 1.80	16 1.32	10 .44	-- --	-- --	17 .35	3.0 .08	-- --	.1 --	-- --		156 0.0	
11N/08W-05C01 M																		
10/03/84 1540	5050 5050		67.1F 19.5C	7.4 7.4	341 341	22 1.10	10 .82	25 1.09	1.0 .03	-- --	4.0 .08	3.0 .08	-- --	.3 --	-- --		96 0.0	
12/04/84 1300	5050 5050		62.6F 17.0C	7.3 7.3	340 340	36 1.60	11 .90	24 1.04	1.1 .03	-- --	4.0 .08	3.0 .08	-- --	.4 --	-- --		133 0.0	
02/05/85 1330	5050 5050		42.8F 6.0C	7.2 7.2	337 337	37 1.65	11 .90	24 1.04	1.0 .03	-- --	3.0 .06	3.0 .08	-- --	.3 --	-- --		138 0.0	
04/03/85 0915	5050 5050		65.3F 16.5C	7.4 7.4	358 358	37 1.85	13 1.07	26 1.22	-- --	-- --	5.0 .10	3.0 .08	-- --	.3 --	-- --		146 0.0	
06/04/85 1345	5050 5050		67.1F 19.5C	7.2 7.2	345 345	32 1.60	11 .90	24 1.04	-- --	-- --	4.0 .08	3.0 .08	-- --	.3 --	-- --		125 0.0	
08/07/85 1030	5050 5050		78.8F 26.0C	7.2 7.2	340 340	36 1.80	11 .90	24 1.04	-- --	-- --	5.0 .10	3.0 .08	-- --	.4 --	-- --		135 0.0	
11N/08W-05C01 M																		
10/03/84 1440	5050 5050		64.4F 18.0C	6.6 6.6	187 187	14 .70	11 .40	7.0 .30	.3 .01	-- --	5.0 .10	3.0 .08	-- --	.0 --	-- --		80 0.0	
12/04/84 1340	5050 5050		31.8F 11.0C	6.8 6.8	85 85	6.0 .30	3.0 .41	3.0 .13	.2 .01	-- --	3.0 .06	2.0 .06	-- --	.1 --	-- --		36 0.0	
02/05/85 1400	5050 5050		39.2F 4.0C	6.3 6.3	98 98	7.0 .35	6.0 .49	4.0 .17	.4 .01	-- --	3.0 .06	2.0 .06	-- --	.0 --	-- --		42 0.0	
04/03/85 0940	5050 5050		50.9F 10.5C	6.2 6.2	104 104	6.0 .30	3.0 .41	3.0 .13	-- --	-- --	2.0 .04	1.0 .03	-- --	.0 --	-- --		36 0.0	
06/04/85 1400	5050 5050		59.9F 15.5C	6.3 6.3	137 137	9.0 .45	8.0 .66	5.0 .22	-- --	-- --	2.0 .04	2.0 .06	-- --	.0 --	-- --		56 0.0	
08/07/85 1110	5050 5050		68.9F 20.5C	6.6 6.6	165 165	11 .55	9.0 .74	7.0 .30	-- --	-- --	4.0 .08	4.0 .11	-- --	.0 --	-- --		64 0.0	
11N/08W-04C01 M																		
10/03/84 1430	5050 5050		57.2F 14.0C	6.8 6.8	232 232	33 1.65	7.0 .58	8.0 .35	1.3 .03	-- --	6.0 .12	2.0 .06	-- --	.0 --	-- --		112 0.0	
12/04/84 1355	5050 5050		41.9F 5.5C	6.0 6.0	70 70	7.0 .35	2.0 .16	5.0 .22	.7 .02	-- --	2.0 .04	1.0 .03	-- --	.1 --	-- --		26 0.0	
02/05/85 1415	5050 5050		39.2F 4.0C	6.4 6.4	184 184	20 1.00	9.0 .41	6.0 .35	1.2 .03	-- --	13 .27	2.0 .06	-- --	.0 --	-- --		70 0.0	

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				RF#	
					CA	MG	NA	K	CaCO3	SO4	CL	NO3	TURP	STO2	TDS 90%	TH MCW		SAR 4548
SACRAMENTO HR CACHE CREEK HU UPPER CACHE CREEK MA LAKEPORT HSA																		
A-04 A-04.0 A-04.04 11N/08W-0501 "																		
04/03/83	5050	49.1F	8.0	81	7.0	3.0	5.0	--	--	2.0	2.0	--	.0	--		30	0.0	
0843	5050	49.5C			13	25	22			.04	.06							5
		43			30	27												
06/04/85	5050	54.5F	6.7	275	33	7.0	8.0	--	--	20	2.0	--	.0	--		112	0.0	
1415	5050	12.5C			1.03	.98	.35			.42	.06							5
		64			22	14												
10/03/84	5050	57.2F	7.2	297	23	24	5.0	.2	--	3.0	2.0	--	.6	--		156	0.0	
1313	5050	14.0C			1.15	1.97	.22	.01		.06	.06							5
		34			90	7	0											
12/04/84	5050	56.3F	7.3	280	22	23	5.0	.3	--	4.0	1.0	--	.0	--		150	0.0	
1315	5050	13.5C			1.10	1.80	.22	.01		.05	.03							5
		34			50	7	0											
02/04/85	5050	56.3F	7.2	295	22	23	5.0	.3	--	3.0	2.0	--	.0	--		150	0.0	
1315	5050	13.5C			1.10	1.80	.22	.01		.06	.06							5
		34			50	7	0											
04/03/85	5050	56.3F	7.5	277	24	25	5.0		--	3.0	1.0	--	.0	--		163	0.0	
0945	5050	13.5C			1.20	2.06	.22			.06	.03							5
		34			50	6												
06/04/85	5050	56.3F	7.0	321	22	23	5.0		--	3.0	2.0	--	.0	--		150	0.0	
1330	5050	13.5C			1.10	1.80	.22			.06	.06							5
		34			50	7												
08/07/85	5050	58.1F	7.0	325	23	23	5.0		--	5.0	2.0	--	.0	--		152	0.0	
1100	5050	14.5C			1.13	1.80	.22			.10	.06							5
		35			58	7												
08/26/85	5050	62.0F	7.0	850	38	84	--	--	--	--	12	33.0	.1	--		441		
1330	5050	16.7C			790	1.90	6.41				.34	.53						5
08/26/85	5050	62.0F	7.0	850	39	86	12	1.1	383	56	13	33.0	.1	--	483	452	0.2	
1335	5050	16.7C	8.6	814	1.93	7.07	.92	.03	7.63	1.17	.17	.53		--	470	69	0.7	
		20			74	5	0		7.6	12	4	5						
07/23/85	5050	7.0	980	27	75	22	1.0	264	--	39	31.0	--	--	--		376	0.5	
1020	5050	8.1	891	1.35	6.17	.96	.03	5.27		1.10	.20					113	1.2	5
		16			73	11	0											
07/23/85	5050	68.0F	7.2	580	--	--	--	--	--	--	--	--	--	--				5
0805	0000	20.0C																
07/23/85	5050	72.0F	7.1	650	--	--	--	--	--	--	--	--	--	--				5
0920	0000	22.2C																
07/23/85	5050	72.0F	7.4	700	--	--	--	--	--	--	--	--	--	--				5
0940	0000	22.2C																
07/23/85	5050	65.0F	7.1	540	--	--	--	--	--	--	--	--	--	--				5
1000	0000	18.3C																
07/23/85	5050	62.0F	7.0	1020	--	--	--	--	--	--	--	--	--	--				5
0650	0000	16.7C																
07/23/85	5050	59.0F	7.0	230	--	--	--	--	--	--	--	--	--	--				5
1100	0000	15.0C																
A-04.05 UPPER LAKE HSA																		
07/23/85	5050	64.0F	6.6	320	23	18	15	--	196	--	3.0	--	--	--		132	0.6	
1410	5050	17.8C	8.5	301	1.15	1.44	.25		3.92		.68					0	1.1	5
		35			43	20												
07/23/85	5050	7.9	280	--	--	--	--	--	--	--	--	--	--	--				5
1510	0000																	
07/23/85	5050	71.0F	7.3	830	--	--	--	--	--	--	--	--	--	--				5
1205	0000	21.8C																
07/23/85	5050	72.0F	7.0	440	44	24	9.0	--	196	--	11	4.0	--	--		209	0.3	
1310	5050	22.2C	8.6	417	2.20	1.97	.35		3.92		.31	.06				13	0.6	5
		48			43													

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				TDS SUM	TH MCM	SAR ASAR	REP
					CA	MG	NA	K	CACCS	SO4	CL	NO3	TURN	SI02						
SACRAMENTO HR CACHA CREEK HU UPPER CACHA CREEK HA UPPER LAKE HSA																				
07/23/85 1230	5050 0000	A-04 A-04.0 A-04.05 15N/10W-13401	M	64.0F 18.3C	7.0	270	--	--	--	--	--	--	--	--	--				S	
07/23/85 1250	5050 0000	15N/10W-13402	M	70.0F 21.1C	7.1	240	--	--	--	--	--	--	--	--	--				S	
07/23/85 1300	5050 0000	16N/04W-31103	M	70.0F 21.1C	6.8	210	--	--	--	--	--	--	--	--	--				S	
VALLEY-AMERICAN HU MORRISON CREEK HA FRANKLIN HSA																				
07/17/85 0914	5050 5050	A-05 A-05.A A-05.A1 05N/05E-10C03	M	66 F 19 C	7.9 8.0	345 371	29 1.43	16 1.32	28 1.22	1.9 .05	178 3.56	6.0 .12	11 .31	.0 .00	.1 0	--	238 199	139 0	1.0 2.0	
07/17/85 0930	5050 5050	07N/05E-31C01	M	68 F 20 C	7.9 8.1	433 459	49 2.45	16 1.32	28 1.22	3.0 .08	171 3.42	7.0 .15	39 1.10	.1 .00	.0 0	--	285 245	168 16	0.9 1.8	S
07/17/85 1115	5050 5050	07N/04E-10C01	M		7.3 8.0	205 219	13 .65	8.0 .85	26 .87	--	89 1.78	--	9.0 .25	--	--	--		66 0	1.1 1.4	S
FLORIN HSA																				
07/18/85 0745	5050 5050	07N/05E-03H01	P	67 F 19 C	7.9 8.2	177 192	14 .70	9.0 .74	15 .65	--	71 1.42	--	9.0 .25	--	--	--		72 3	0.8 1.0	S
07/18/85 0850	5050 5050	08N/05E-06H01	M	67 F 19 C	7.9 8.2	564 608	50 2.50	33 2.71	26 1.13	--	227 4.54	--	51 1.44	--	--	--		261 34	0.7 1.6	S
07/17/85 1400	5050 5050	09N/06E-34R01	M	67 F 19 C	7.3 8.0	284 298	30 1.30	14 1.15	13 .97	--	112 2.24	--	10 .26	--	--	--		133 21	0.3 0.6	S
COON-AMERICAN HA LOWER AMERICAN HSA																				
07/17/85 1430	5050 5050	A-05.B A-05.01 09N/05E-36R01	M	68 F 20 C	7.9 8.1	251 265	23 1.15	12 .90	10 .44	--	105 2.10	--	7.0 .20	--	--	--		107 2	0.4 0.7	S
07/14/85 1245	5050 5050	10N/05E-06H02	M	67 F 19 C	7.9 7.5	360 381	28 1.40	12 .99	34 1.48	--	136 2.76	--	28 .79	--	--	--		120 0	1.4 2.3	S
07/18/85 1130	5050 5050	10N/05E-17H01	M		7.7 8.2	301 324	18 .90	12 .99	27 1.17	--	84 1.68	--	40 1.13	--	--	--		94 11	1.2 1.7	S
07/19/85 1030	5050 5050	10N/06E-05K01	M		7.3 7.8	183 193	12 .60	8.0 .58	15 .65	--	88 1.36	--	14 .39	--	--	--		63 0	0.8 1.0	S
07/10/84 0900	4050 0000	11N/04E-35J01	M	69 F 21 C	8.3 8.4	288 314	23 1.15	9.0 .74	31 1.35	--	122 2.44	--	22 .62	--	--	--		94 0	1.4 2.2	S
PLEASANT GROVE HSA																				
07/24/85 1100	5050 5050	A-05.02 11N/03E-24Q01	M	65 F 18 C	7.9 8.3	581 572	25 1.25	26 1.24	55 2.39	1.6 .05	244 4.88	14 .29	25 .71	.4 .01	.2 0	--	337 296	170 0	1.8 3.8	
07/30/85 1315	5050 5050	11N/04E-04R02	M	67 F 19 C	7.5 8.7	540 577	45 2.25	30 2.47	32 1.39	--	240 4.80	--	33 .93	--	--	--		236 0	0.9 2.0	S
07/30/85 0935	5050 5050	11N/04E-23P02	M	68 F 20 C	7.9 8.3	349 374	29 1.45	14 1.15	28 1.22	1.3 .03	152 3.04	3.0 .06	24 .68	7.5 .12	.1 3	--	252 198	130 0	1.1 1.9	T
07/19/85 1115	4050 5050	11N/05E-17E02	M	69 F 21 C	7.9 7.8	281 288	20 1.00	12 .99	22 1.04	--	97 1.94	--	23 .65	--	--	--		100 3	1.0 1.6	

MINERAL ANALYSES OF GROUND WATER

[illegible]

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN	MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER					REMARKS
					CA	MG	NA	K	PERCENT CACO3	REACTANCE SO4	VALUE CL	NO3	R TURB	F SI02	TDS SUM	TH NCM	SAR ASAR	
SACRAMENTO NR COLIISA 8451N HU GLENN COLIISA NA COLIISA TROUGH NSA																		
07/20/85 1430	5050 5050		7.9 7.7	566 580	42 33	30 30	34 27	-- 4.74	237	--	31 .87	-- --	-- --	-- --	220 0	1.1 2.5		
07/20/85 1100	5050 5050		8.1 7.6	516 542	34 31	25 26	42 32	3.1 .08	219 4.38	19 7	37 1.04	.5 .01	1.4 0	-- --	327 294	101 0	1.3 2.8	
07/21/85 1230	5050 5050		8.1 8.6	391 415	26 29	29 32	20 .87	-- 19	219 4.38	--	3.0 .08	-- --	-- --	-- --	185 0	0.6 1.3		
07/22/85 0915	5050 5050		72.5F 22.5C	7.1 8.0	2100 1820	84 4.19	78 6.41	102 4.44	.9 .02	116 2.32	21 .44	421 11.87	57.0 .92	.8 6	938 834	531 414	1.9 4.2	
07/22/85 0920	5050 0000		7.5	1600	--	--	--	--	--	--	--	--	--	--	--	--		
07/22/85 1014	5050 0000		71.0F 21.6C	7.8	460	--	--	--	--	--	--	--	--	--	--	--		
07/22/85 0940	5050 0000		70.0F 21.1C	7.7	520	--	--	--	--	--	--	--	--	--	--	--		
07/22/85 1030	5050 0000		75.0F 23.9C	7.3	800	--	--	--	--	--	--	--	--	--	--	--		
07/22/85 1045	5050 0000		7.8	575	--	--	--	--	--	--	--	--	--	--	--	--		
07/22/85 1124	5050 0000		7.3	280	--	--	--	--	--	--	--	--	--	--	--	--		
07/22/85 1245	5050 0000		68.0F 20.0C	7.6	680	--	--	--	--	--	--	--	--	--	--	--		
07/22/85 1354	5050 0000		72.0F 22.2C	7.8	1085	--	--	--	--	--	--	--	--	--	--	--		
07/22/85 1230	5050 0000		73.0F 22.8C	7.5	660	--	--	--	--	--	--	--	--	--	--	--		
07/22/85 1415	5050 0000		71.0F 21.6C	7.7	585	--	--	--	--	--	--	--	--	--	--	--		
07/22/85 1430	5050 0000		68.0F 20.0C	7.7	1950	--	--	--	--	--	--	--	--	--	--	--		
07/22/85 1400	5050 0000		73.5F 23.0C	7.7	635	--	--	--	--	--	--	--	--	--	--	--		
07/22/85 1435	5050 0000		71.0F 21.6C	7.9	1010	--	--	--	--	--	--	--	--	--	--	--		
07/31/85 1130	5050 0000		66.0F 18.9C	8.0	510	--	--	--	--	--	--	--	--	--	--	--		
07/31/85 1014	5050 0000		68.0F 20.0C	8.0	565	--	--	--	--	--	--	--	--	--	--	--		
07/31/85 1044	5050 0000		69.0F 20.5C	8.0	810	--	--	--	--	--	--	--	--	--	--	--		

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER																							
DATE TIME	SAMPLER LAR	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER											
				CA	MG	NA	K	CAC03	SO4	CL	NO3	TURN	STQ?	B	F	TNC SUM	TH NCH	SAP ASAP	RFM				
				SACRAMENTO HR COLUSA BASIN HU GLENN COLUSA HA COLUSA TROUGH HSA																			
07/31/83 0855	5050 0000	65.0F 18.3C	7.2	350	--	--	--	--	--	--	--	--	--	--	--	--	--			3			
07/31/83 1310	5050 0000	66.0F 18.9C	7.8	760	--	--	--	--	--	--	--	--	--	--	--	--	--			5			
07/31/83 0910	5050 0000	71.0F 21.6C	7.8	750	--	--	--	--	--	--	--	--	--	--	--	--	--			5			
07/01/85 1335	5701 5701	68.0F 20.0C	7.8	555	30 1.50	25 2.06	5C 2.16	.7 .02	223 4.50	32 12	12 6	16.0 5	--	.3 21.0	322 322	177 0	1.6 3.4			5			
07/01/85 1045	5701 5701	68.0F 20.0C	7.9	590	29 1.45	29 2.38	51 2.22	.8 .02	237 4.74	32 1.08	11 .31	8.0 .13	--	.4 24.0	346 347	190 0	1.6 1.4			5			
07/11/83 0930	5050 0000	66.0F 18.9C	8.0	570	--	--	--	--	--	--	--	--	--	--	--	--	--						
07/01/85 1320	5701 5701	66.2F 19.0C	7.8	575	28 1.40	27 2.22	51 2.22	.7 .02	237 4.74	43 15	7.0 3	7.0 2	--	.4 26.0	332 332	183 0	1.6 1.5						
07/11/83 0946	5050 0000	65 F 18 C	8.0	600	--	--	--	--	--	--	--	--	--	--	--	--	--						
07/31/83 1106	5050 5050	70.0F 21.1C	7.8 8.7	580 583	32 1.60	28 2.30	5C 2.44	-- 36	244 4.88	--	14 .39	4.4 .07	--	--	--	195 0	1.7 3.8			5			
07/31/83 1430	5050 0000	67.0F 19.4C	7.8	530	--	--	--	--	--	--	--	--	--	--	--	--	--						
07/31/83 1440	5050 0000	73.0F 22.8C	8.1	520	--	--	--	--	--	--	--	--	--	--	--	--	--						
07/31/83 1410	5050 0000	71.0F 21.6C	8.2	350	--	--	--	--	--	--	--	--	--	--	--	--	--						
07/30/83 1320	5050 0000		8.0	180	--	--	--	--	--	--	--	--	--	--	--	--	--						
07/30/83 1605	5050 0000		8.0	420	--	--	--	--	--	--	--	--	--	--	--	--	--						
07/31/83 0835	5050 0000	67.0F 19.4C	7.6	425	--	--	--	--	--	--	--	--	--	--	--	--	--						
07/30/83 1345	5050 0000	72.0F 22.2C	8.0	350	--	--	--	--	--	--	--	--	--	--	--	--	--						
07/11/83 1505	5050 0000	66.0F 18.9C	7.8	520	--	--	--	--	--	--	--	--	--	--	--	--	--						
07/30/83 1415	5050 0000	69.0F 20.5C	7.2	650	--	--	--	--	--	--	--	--	--	--	--	--	--						
07/30/83 1515	5050 0000		8.1	330	--	--	--	--	--	--	--	--	--	--	--	--	--						
				ORLAND HSA																			
07/30/83 1345	5050 5050	67.0F 19.4C	7.2 8.2	565	32 1.60	31 2.55	22 1.9C	1.2 .03	127 2.54	--	35 .99	44.0 .74	--	--	--	208 81	0.7 1.3			5			

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

TIME	SAMPLER LAB	TEMP	FIELD		MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				REP
			LABORATORY	PH	EC	CA	MG	NA	K	PERCENT		REACTANTS		VALUE		R	F	TOS	TH	SAR		
										CAC03	SO4	CL	NO3	TJ04	SI02						SI04	
A																						
SACRAMENTO HA																						
A-07 COLUSA HASIM MU																						
A-07.A GLENN COLUSA HA																						
A-07.B2 ORLAND HSA																						
07/30/85	5050		69.0F	7.6	560	27	22	21	--	136	--	10	12.0	--	--			198	0.7			
1303	5050		20.5C	8.6	930	1.35	1.01	.91	--	2.72	--	.34	.19	--	--		22	1.3		5		
22H/02W-20C01																						
07/30/85	5050		72.0F	7.6	445	--	--	--	--	--	--	--	--	--	--						5	
0950	0000		22.2C																		5	
22H/03W-17+01																						
07/30/85	5050		66.0F	7.8	420	29	14	19	--	136	--	17	--	--	--		130	0.7				
0930	5050		16.9C	8.6	399	1.45	1.15	.83	--	2.72	--	.48	--	--	--		0	1.3			5	
22H/03W-22C02																						
07/30/85	5050		66.0F	7.8	510	28	17	18	.6	117	22	21	13.0	.2	--	242	140	0.7				
0915	5050		20.0C	8.2	422	1.40	1.40	.78	.02	2.34	.46	.59	.21	--	--	190	23	1.1		7	5	
22H/03W-22C01																						
07/31/85	5050		67.0F	7.5	445	--	--	--	--	--	--	--	--	--	--						5	
1545	0000		19.4C																		5	
22H/03W-25H01																						
07/30/85	5050		66.0F	7.0	490	--	--	--	--	--	--	--	--	--	--						5	
1435	0000		20.0C																		5	
22H/03W-32H02																						
A-07.C																						
SUTTER BYPASS HA																						
07/24/85	5050		65 F	7.5	354	29	22	18	--	168	--	14	--	--	--		163	0.6				
1245	5050		18 C	8.4	375	1.45	1.01	.78	--	3.36	--	.39	--	--	--		0	1.2			5	
13H/03E-10H02																						
07/24/85	5050		66 F	7.9	502	35	34	3C	1.6	266	9.0	14	3.6	.1	--	326	226	0.9				
1330	5050		19 C	8.4	522	1.75	2.80	1.31	.04	5.31	.19	.39	.06	--	--	267	0	2.0			5	
14H/02E-13L01																						
07/24/85	5050		7.7	882	31	64	5C	--	312	--	9.0	--	--	--	--		341	1.2				
1415	5050		8.3	824	1.55	5.26	2.18	--	6.23	--	.29	--	--	--	--		29	2.9			5	
14H/03E-06402																						
07/23/85	5050		7.3	241	20	15	7.0	--	119	--	3.0	--	--	--	--		112	0.3				
1700	5050		8.3	249	1.00	1.23	.3C	--	2.98	--	.08	--	--	--	--		0	0.3			5	
15H/02E-01H01																						
07/24/85	5050		67 F	7.5	297	24	15	2C	--	136	--	10	--	--	--		122	0.8				
1430	5050		19 C	8.4	304	1.20	1.23	.87	--	2.72	--	.28	--	--	--		0	1.4			5	
15H/02E-22C01																						
07/23/85	5050		65 F	7.1	1476	43	104	47	--	234	--	223	--	--	--		336	0.9				
1130	5050		18 C	6.0	1430	2.15	8.55	2.04	--	4.68	--	6.29	--	--	--		301	2.2			5	
15H/03E-15H04																						
07/23/85	5050		7.5	453	33	33	16	2.1	206	26	10	15.0	.0	--	--	312	219	0.5				
1330	5050		8.3	467	1.65	2.71	.7C	.05	4.12	.54	.26	.24	--	--	--	259	12	1.0			5	
16H/02E-02H01																						
07/23/85	5050		65 F	7.5	229	17	16	11	--	97	--	2.0	--	--	--		109	0.5				
1300	5050		18 C	8.2	242	.65	1.32	.48	--	1.94	--	.06	--	--	--		12	0.7			5	
16H/03E-04E01																						
06/25/85	5050		73.0F	7.1	710	--	--	--	--	--	--	--	--	--	--						5	
1430	0000		22.8C																		5	
17H/03E-18H01																						
06/25/85	5050		62.0F	7.2	560	--	--	--	--	--	--	--	--	--	--						5	
1450	0000		16.7C																		5	
17H/03E-20C01																						
A-07.D																						
RUTTE HASIM HA																						
07/23/85	5050		67 F	7.7	569	56	38	28	--	291	--	11	--	--	--		296	0.7				
1430	5050		19 C	8.4	580	2.79	3.13	1.22	--	5.81	--	.31	--	--	--		6	1.7			5	
16H/01F-05C01																						
06/25/85	5050		68.0F	7.3	1000	31	72	--	--	--	--	30	--	--	--		374				5	
1415	5050		20.0C		948	1.55	5.92					.85	--	--	--						5	
17H/01E-01H01																						
06/25/85	5050		70.0F	7.1	315	--	--	--	--	--	--	--	--	--	--						5	
1210	0000		21.1C																		5	
18H/02E-12C01																						

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				TDS SUM	TH MCM	SAF A184	BEH
				CA	MG	NA	K	PERCENT CACO3	SO4	CL	NO3	TURB	SiO2						
SACRAMENTO HB COLUSA BASIN HU BUTTE BASIN HA																			
06/25/85 1945	5050 5050	18N/02E-13#05 M A=07 A=07.0	67.0F 19.4C	7.3 8.4	200 196	12 .80 29	12 .90 48	11 .48 29	-- 1.94	-- 1.0 .03	-- --	-- --	-- --	80 0	0.5 0.8				S
06/25/85 1340	5050 0000	18N/02E-14#01	71.0F 21.6C	7.3	320	--	--	--	--	--	--	--	--						S
06/25/85 5050	5050 5050	18N/03E-29#01 M	69.0F 20.9C	7.3 8.3	200 191	12 .60 31	11 .90 46	10 .44 23	-- 1.78	-- 1.0 .03	.0 .00	-- --	-- --	75 0	0.5 0.7				S
06/25/85 1320	5050 0000	19N/02E-16#01 M	73.0F 22.6C	7.5	260	--	--	--	--	--	--	--	--						S
06/25/85 1120	5050 0000	20N/01E-01C01 M	70.0F 21.1C	6.9	920	--	--	--	--	--	--	--	--						S
06/25/85 1000	5050 5050	20N/02E-04#01 M	66.0F 16.9C	7.2 8.3	320 313	25 1.25 56	19 1.38 48	16 .44 14	-- 3.04	-- 5.0 .14	5.3 .09	-- --	-- --	141 0	0.4 0.7				S
06/25/85 1250	5050 0000	20N/02E-29#03 M	72.0F 22.2C	7.3	630	--	--	--	--	--	--	--	--						S
06/24/85 1320	5050 5050	20N/03E-15#01 M	65.0F 18.3C	6.8 8.3	180 186	16 .80 49	9.8 .74 42	5.0 .22 19	-- 1.44	-- 1.0 .03	18.0 .29	-- --	-- --	77 5	0.2 0.3				S
12/26/84 2328 9580	2328 9580	21N/01E-01C02 M		7.2	312	--	--	--	--	--	12.0 .19	-- --	-- --						S
06/19/85 2328 9580	2328 9580			7.5	250	--	--	--	--	--	10.0 .16	-- --	-- --						S
12/26/84 2328 9580	2328 9580	21N/01E-02C02 M		7.0	520	--	--	--	--	--	21.0 .34	-- --	-- --						S
06/19/85 2328 9580	2328 9580			7.3	410	--	--	--	--	--	20.0 .32	-- --	-- --						S
12/26/84 2328 9580	2328 9580	21N/01E-03#05 M		6.9	1040	--	--	--	--	--	56.0 .90	-- --	-- --						S
06/19/85 2328 9580	2328 9580			7.3	690	--	--	--	--	--	39.0 .63	-- --	-- --						S
09/17/85 1500	5050 5050	21N/01E-08#02 M	67.0F 19.4C	7.0 8.6	780 798	65 3.24 38	92 4.28 90	23 1.00 12	-- 5.39	-- 1.44	39.0 .63	-- --	-- --	376 107	0.5 1.3				S
12/26/84 2328 9580	2328 9580	21N/01E-09#04 M		6.4	481	--	--	--	--	--	31.0 .50	-- --	-- --						S
06/19/85 2328 9580	2328 9580			7.4	410	--	--	--	--	--	26.0 .39	-- --	-- --						S
06/25/85 0930	5050 0000	21N/02E-21#01 M	67.0F 19.4C	7.1	490	--	--	--	--	--	--	--	--						S
06/24/85 1245	5050 0000	21N/03E-10#01 M	72.0F 22.2C	6.9	290	--	--	--	--	--	--	--	--						S
06/12/85 1345	5701 5701	22N/01E-35#01 M	64.4F 18.0C	7.2	370	36 1.70 39	24 1.97 46	14 .61 14	1.1 .03 1	183 3.66 85	9.0 .19 4	14 .39 9	.0 .08 2	-- 56.0	.1 267	186 1	0.4 0.9		E
06/12/85 1315	5701 5701	22N/01E-36C01 M	66.0F 20.0C	7.0	220	18 .90 35	11 .76 35	16 .05 27	2.1 2.18 2	109 2.18 84	8.0 .17 7	8.0 .23 9	1.0 .02 1	-- 98.0	.1 188	187	90 0	0.7 1.1	F

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER L&R	TEMP	FIELD		PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE PER LITER				MILLIGRAMS PER LITER				REMARKS
			CA	MG			NA	K	CaCO3	SO4	CL	NO3	TDS	TH	SAR	PER			
A-07 A-07-D		SACRAMENTO NR COLLISA BASIN MU ROUTE BASIN HA																	
07/01/85 0910	5050 0000	17N/01W-06P01	M	62.0F 16.7C	7.4	345	--	--	--	--	--	--	--	--	--	--	--		
07/01/85 0930	5050 0003	17N/01W-30H01	M	65.0F 16.3C	8.0	345	--	--	--	--	--	--	--	--	--	--	--		
07/31/85 1240	5050 0000	18N/01W-16H01	M	69.0F 20.5C	8.2	420	--	--	--	--	--	--	--	--	--	--	--		
06/25/85 1100	5050 0000	21N/01W-35C01	M	71.0F 21.6C	7.2	510	--	--	--	--	--	--	--	--	--	--	--		
A-08-A		MARYSVILLE NU LOWER REAR RIVER HA																	
07/22/85 1100	5050 5050	14N/05E-16C01	M	65 F 18 C	6.9 7.9	1612 1710	164 8.18	84 8.91	34 1.46	-- 9	93 1.66	-- 12.63	-- 448	-- --	-- --	-- --	755 662	0.5 1.2	S
07/22/85 1000	5050 5050	14N/05E-32R03	M	67 F 19 C	7.3 8.1	354 389	31 1.55	22 1.81	17 1.74	9 .02	120 2.40	22 4.46	26 7.73	20.0 3.32	0 --	-- 211	280 106	0.6 1.0	E 7
A-08-A		OLIVENHURST HA																	
07/22/85 1230	5050 5050	14N/04E-14J02	M	69 F 21 C	7.3 8.0	200 213	14 .70	11 .90	15 .65	-- 24	85 1.70	-- 1.37	13 --	-- --	-- --	-- --	80 0	0.7 1.0	S
07/22/85 1145	5050 5050	14N/05E-18E01	M	73 F 22 C	7.3 8.2	178 190	12 .60	9.0 .74	13 .57	6 .02	75 1.90	5.0 1.10	8.0 2.23	4.2 .07	0 --	-- 97	166 0	0.7 0.9	E 1
07/22/85 1415	5050 5050	15N/04E-23C01	M	68 F 20 C	7.9 8.0	203 210	17 .65	9.0 .74	14 .61	9 .02	106 2.12	2.0 2	4.0 1.11	4.0 .00	0 --	-- 110	143 0	0.7 1.0	T
A-08-C		LOWER YUBA RIVER HA																	
06/26/85 1115	5701 5701	15N/03E-12R02	M	66 F 19 C	7.4	475	39 1.95	29 2.38	14 .61	1.6 .04	194 3.66	33 .69	11 .31	10.0 .16	-- 62.0	.1 316	216 23	0.4 0.9	
08/14/85 1430	5701 5701	15N/03E-13N01	M	64 F 18 C	7.8	655	36.9 4.4	29 4.1	14 1.4	1.6 .12	194 5.39	33 .58	11 1.59	10.0 .02	-- 49.0	.1 427	318 47	0.6 1.4	
08/14/85 1450	5701 5701	15N/04E-07J02	M	64 F 18 C	7.7	380	38 1.90	24 1.97	12 .52	2.1 .05	173 3.46	33 .69	7.0 .20	6.0 .10	-- 45.0	.1 271	194 21	0.4 0.8	
08/26/85 1130	5701 5701	15N/04E-07M02	M	66 F 19 C	7.4	395	33 1.65	23 2.06	16 .44	1.5 .04	192 3.84	14 .29	3.0 1.06	8.0 .13	-- 62.0	.1 272	186 0	0.5 0.7	
08/14/85 1445	5701 5701	14N/04E-18C01	M	68 F 20 C	7.8	325	29 1.45	21 1.73	13 .57	2.2 .06	157 3.14	22 .46	6.0 .17	1.0 .02	-- 43.0	.1 231	160 2	0.4 0.9	
A-08-D		LOWER FEATHER RIVER HA																	
07/23/85 1045	5050 5050	16N/03E-36E02	M	65 F 16 C	7.5 8.2	665 675	39 1.95	49 4.03	19 .83	2.0 .05	236 4.60	70 1.46	14 .39	30.0 .46	0 --	-- 361	462 69	0.5 1.1	T
07/23/85 0930	5050 5050	16N/04E-09D01	M	65 F 19 C	6.9 8.2	577 615	54 2.69	40 3.29	22 .96	-- 14	205 4.10	-- 1.47	52 --	-- --	-- --	-- --	299 94	0.6 1.2	S
07/23/85 0845	5050 5050	16N/04E-34E01	M	67 F 19 C	7.7 8.0	229 249	23 1.15	12 1.15	9.0 .39	-- 15	92 1.84	-- --	2.0 .06	-- --	-- --	-- --	107 15	0.4 0.6	S
06/24/85 1530	5050 0000	17N/04E-20P01	M	69.0F 20.5C	7.5	600	--	--	--	--	--	--	--	--	--	--	--		

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				SAR	ASAR	REM
					CA	MG	NA	K	PERCENT CACO3	REACTION VAL	CL	NO3	TH	F	TDS	TH	SAH						
SACRAMENTO HB MARTYSVILLE HU LOWER FEATHER RIVER HA																							
06/24/85 1430	A-08 A-08.0 10H/03E-25J01 R 5050 0000	74.0F 23.3C	7.1	280	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
06/25/85 1520	10H/03E-33H01 R 5050 0000	70.0F 21.1C	7.5	240	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
06/24/85 1400	10H/04E-07A01 R 5050 0000	68.0F 20.0C	7.1	175	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
06/24/85 1430	10H/04E-28H01 R 5050 5050	72.0F 22.2C	8.1 8.5	3200 5040	51 2.54	3.0 1	62C 9C	3.1 0	121 2.42	862 17.95	321 9.05	5.2 1.0R	6.3 0	.6 --	2010 1944	140 19	22.8 35.1						
06/24/85 1345	10H/04E-06P01 R 5050 5050	64.0F 20.5C	7.3 8.1	195 192	10 24	6.0 32	20 42	.0 1	84 1.08	7.0 1.15	4.0 1.1	2.8 1.05	.0 3	--	161 103	98 0	1.1 1.4	E F					
06/24/85 1125	10H/04E-07P01 R 5701 5701	64.4F 18.0C	7.3	750	40 2.00	20 1.64	73 3.18	2.1 .05	156 2.72	108 2.25	67 1.89	6.0 1.13	--	.1 45.0	444 445	161 46	2.4 4.4						
06/24/85 1150	10H/04E-20C01 R 5701 5701	64.4F 18.0C	7.0	385	24 1.20	18 1.48	27 1.17	.7 .02	156 3.12	15 1.31	11 1.12	12.0 1.19	--	.2 60.0	261 261	156 0	1.0 1.8						
07/09/85 1510	A-11 A-11.C A-11.C2 22H/13E-10R01 R 5050 0000	60.0F 15.5C	7.4	395	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
07/09/85 1700	A-11.C3 20H/10E-18H01 R 5050 5050	62.0F 16.7C	7.6 8.0	210 243	21 1.05	17 1.40	13 .37	.4 .01	125 2.50	8.0 1.27	1.0 1.02	.0 1.00	.0 0	--	134 115	125 0	0.5 0.9						
07/09/85 1505	A-11.C4 20H/14E-04G02 R 5050 5050	57.0F 13.9C	7.7	200 196	16 1.80	8.0 1.66	--	--	--	--	1.0 1.03	--	--	--	--	73							
08/24/85 1625	21H/14E-02H01 R 5050 0000	56.0F 14.4C	7.3	1400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
09/24/85 1015	21H/14E-02H02 R 5050 0000	64.0F 17.8C	7.5	1110	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
07/11/85 0840	21H/14E-14H01 R 5050 5050	55.0F 12.6C	7.1	490 468	11 1.55	11 1.00	--	--	--	--	1.21	.0 1.00	.1 --	--	72								
07/09/85 1600	21H/14E-15J01 R 5050 5050	61.0F 16.1C	7.4	500 443	7.0 1.35	8.0 1.68	--	--	--	--	32 1.47	--	--	--	90								
07/11/85 0920	21H/14E-20B02 R 5050 5050	62.0F 16.7C	7.3	320 314	28 1.40	15 1.23	--	--	--	--	1.0 1.03	--	--	--	132								
07/09/85 1550	21H/14E-22L01 R 5050 0000	57.0F 13.9C	7.3	710	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
07/09/85 1540	21H/14E-29J01 R 5050 5050	60.0F 15.9C	7.2	240 229	20 1.00	15 1.23	--	--	--	--	.0 1.00	--	--	--	112								
07/09/85 1530	21H/14E-32G01 R 5050 0000	69.0F 20.5C	7.4	270	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

TABLE E-1 (CONTINUED)

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TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER							REMARKS
				CA	MG	NA	K	CaCO3	SO4	CL	NO3	TUPT	SiO2	TDS	TH	SAR	ASAR		
A A-11 A-11.C A-11.C4 22N/15E-21001 M																			
07/09/85 1640	5050 0000	65.0F 18.3C	7.1 940	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
22N/15E-21401 M																			
07/09/85 1650	5050 0000	64.0F 17.6C	7.0 960	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
22N/15E-21401 M																			
07/09/85 1700	5030 0000	52.0F 11.1C	7.1 940	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
22N/15E-21101 M																			
07/09/85 1710	5050 0000	64.0F 17.8C	7.3 900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
22N/15E-21401 M																			
09/24/85 1230	5050 0000	57.0F 13.9C	6.4 600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
22N/15E-22C01 M																			
09/24/85 1320	5050 0000	62.0F 16.7C	7.4 980	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
22N/15E-26K03 M																			
07/10/85 0825	5050 5050	65.0F 18.3C	7.1 260 211	6.0 30 14	7.0 58 26	26 1.13 51	7.9 20 9	6.9 1.38 67	4.0 0.08 4	7.0 20 10	25.0 40 19	.1 --	--	185 124	44 0	1.7 1.6	EY 7 5		
22N/15E-32F01 M																			
07/09/85 1720	5050 0000		8.2 2440	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
22N/15E-33M01 M																			
09/24/85 1340	5050 0000	64.0F 17.8C	7.6 500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
22N/15E-34G01 M																			
07/10/85 0920	5050 5050	65.0F 18.3C	7.4 220 211	15 75	10 82	--	--	--	--	2.0 06	1.2 02	.0 --	--	78	--	--	--	--	5
22N/15E-33H01 M																			
07/10/85 0910	5050 5050	66.0F 20.0C	7.1 240 216	12 60	10 82	--	--	--	--	4.0 11	5.8 09	.1 --	--	71	--	--	--	--	5
22N/15E-36M01 M																			
07/10/85 0645	5050 5050	89.0F 20.5C	7.3 205 205	11 55	7.0 58	--	--	--	--	4.0 11	1.4 02	.0 --	--	56	--	--	--	--	5
22N/15E-36J01 M																			
07/10/85 0640	5030 5050		8.1 180 180	2.0 10 08	1.0 08	--	--	--	--	6.0 17	5.8 09	.3 --	--	9	--	--	--	--	5
22N/15E-36M01 M																			
07/10/85 0850	5050 5050	72.0F 22.2C	7.3 180 162	3.0 15	2.0 16	--	--	--	--	2.0 06	14.0 25	.2 --	--	16	--	--	--	--	5
22N/15E-36G01 M																			
07/10/85 0800	5030 5050	62.0F 16.7C	7.2 240 235	17 65	11 90	--	--	--	--	3.0 08	1.5 02	.0 --	--	88	--	--	--	--	5
22N/16E-06J04 M																			
07/10/85 1345	5030 0000	53.0F 11.7C	7.2 300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
22N/16E-06R02 M																			
07/10/85 1300	5050 5050	79.0F 26.1C	7.4 240 206	2.0 10	3.0 25	--	--	--	--	7.0 20	17.0 27	.3 --	--	18	--	--	--	--	5
22N/16E-07G01 M																			
07/10/85 1305	5050 5050	75.0F 23.4C	7.2 260 213	6.0 30	6.0 49	--	--	--	--	2.0 06	37.0 60	.1 --	--	40	--	--	--	--	5
22N/16E-08F01 M																			
07/10/85 1050	5050 5050	61.0F 16.1C	7.5 380 344	9.0 45	8.0 66	--	--	--	--	8.0 23	40.0 65	.3 --	--	56	--	--	--	--	5
22N/16E-17N01 M																			
07/10/85 1040	5050 5050	61.0F 16.1C	7.6 370 339	15 75	12 99	--	--	--	--	6.0 17	29.0 47	.1 --	--	A7	--	--	--	--	5

TABLE R-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER

[illegible]

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

TIME	SAMPLER LAB	TEMP	FIELD LABORATORY AN EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				REMARKS			
				CA	MG	NA	K	CaCO3	SO4	CL	NO3	TURB	SIO2	Fe	TH		SAR	ASAR	
SACRAMENTO HA FEATHER RIVER HU NORTH FORK FEATHER HA MOUNT HARKNESS HSA																			
07/03/85 1120	5050 5050	A-11 A-11.D A-11.04 28N/07E-04N01 W	49.0F 9.4C	7.0 111	115 111	8.0 4.0	2.0 1.0	3.0 1.0	2.0 0.03	35 70	1.0 1.0	1.0 0.03	1.7 0.03	4.0 --	-- --	44	5		
07/08/85 1400	5050 0000	28N/07E-11N01 W	72.0F 22.2C	7.4 122	--	--	--	--	--	--	--	--	--	--	--	--	5		
07/08/85 1300	5050 0000	28N/07E-14N01 W	64.0F 17.9C	6.4 145	--	--	--	--	--	--	--	--	--	--	--	--	5		
07/08/85 1340	5050 5050	28N/07E-14N02 W	53.0F 11.7C	7.1 74	75 74	8.0 4.0	2.0 1.6	3.0 1.3	2.0 0.5	35 70	1.0 0.02	1.0 0.03	1.7 0.03	4.0 4.0	-- --	60 40	28 0	0.2 0.1	E T
07/08/85 1200	5050 5050	28N/07E-14N01 W	69.0F 20.0C	7.1 122	115 75	15 25	3.0 1.7	4.0 0.7	2.7 1.1	50 94	1.0 0.02	1.0 0.03	1.9 0.03	4.0 --	-- --	92 64	50 0	0.2 0.3	E T
EAST BRANCH NORTH FORK HA QUINCY HSA																			
07/10/85 1645	5050 5050	A-11.E A-11.E2 24N/09E-02N01 W	57.0F 13.9C	6.9 7.0	200 184	10 23	13 50	13 1.07	-- 0.57	94 1.88	-- 1.0	1.0 0.03	0.0 0.00	-- --	-- --	78 0	0.6 0.6	5	
07/10/85 1400	5050 0000	24N/09E-16N02 W	57.0F 13.9C	6.6 90	--	--	--	--	--	--	--	--	--	--	--	--	5		
07/10/85 1700	5050 5050	24N/13E-06N01 W	57.0F 13.9C	7.3 7.1	410 326	4.8 2.4	12 0.99	2.9 1.26	-- 21	212 4.24	-- 5.0	1.0 0.14	0.2 0.00	-- --	-- --	170 0	1.0 2.0	5	
07/10/85 1720	5050 5050	24N/10E-03L01 W	60.0F 15.5C	7.0 7.4	200 299	36 1.00	1.8 1.48	7.0 0.38	-- 8	150 3.00	-- 2.0	1.0 0.04	0.0 0.00	-- --	-- --	169 19	0.2 0.4	5	
07/10/85 1710	5050 5050	24N/10E-14N01 W	56.0F 13.3C	6.8 7.5	130 122	13 0.85	4.0 0.33	4.0 0.17	-- 15	48 0.96	-- 3.0	1.0 0.04	0.0 0.02	-- --	-- --	49 1	0.2 0.2	5	
CRESCENT MILLS HSA																			
07/08/85 1600	5050 5050	A-11.E3 26N/10E-04N01 W	65.0F 16.3C	6.9 208	205 208	8.0 4.0	12 0.99	-- --	-- --	-- --	1.0 0.03	-- --	-- --	-- --	-- --	70	--	5	
07/08/85 1600	5050 5050	26N/10E-06N01 W	66.0F 20.0C	7.0 474	480 1.00	8.0 0.66	-- --	-- --	-- --	-- --	80 2.26	-- --	-- --	-- --	-- --	83	--	5	
07/08/85 1415	5050 0000	26N/10E-14N01 W	--	7.3 510	--	--	--	--	--	--	--	--	--	--	--	--	5		
07/08/85 1700	5050 5050	24N/10E-14N01 W	62.0F 16.7C	7.6 8.0	210 243	21 1.05	17 1.40	4 0.16	125 0.93	6.0 0.17	1.0 0.03	0.0 0.00	4.0 1.0	-- --	134 115	123 0	0.5 0.9	5	
07/08/85 1730	5050 5050	24N/10E-23N01 W	54.0F 12.2C	7.0 211	220 1.30	26 0.58	--	--	--	--	2.0 0.06	--	--	--	--	94	--	5	
07/08/85 1530	5050 5050	27N/09E-35N01 W	64.0F 17.9C	7.1 6.5	240 230	22 1.10	12 0.99	9.0 0.34	-- 18	119 2.38	-- 1.0	1.0 0.03	0.0 0.00	-- --	-- --	105 0	6.4 0.6	5	
TENAPA HU LOWER TONY CREEK HA																			
07/30/85 1000	5050 0000	22N/03E-17E01 W	71.0F 21.6C	7.8 450	--	--	--	--	--	--	--	--	--	--	--	--	5		
07/30/85 1620	5050 0000	22N/04E-16N01 W	65.0F 18.3C	7.4 545	--	--	--	--	--	--	--	--	--	--	--	--	5		

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUNDWATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALU				MILLIGRAMS PER LITER				REM	
				CA	MG	NA	K	CaCO3	SO4	CL	NO3	TURB	SiO2	Fe	Mn		SAR
SACRAMENTO MB TENAYA MHI RED BLUFF NA																	
08/12/85	5701	71.4F	7.7	230	18.90	14.43	13.21	2.32	11.5	5.0	10.10	3.0	73.0	20.5	10.4	0.6	F
1930	5701	22.0C			34	43	21	2	2.30	1.0	2.8	0.5	?		0	0.9	
06/24/85	5050	71.0F	7.0	380	--	--	--	--	--	--	--	--	--	--	--	--	
1020	0000	21.6C															
06/24/85	5050	72.0F	7.1	320	--	--	--	--	--	--	--	--	--	--	--	--	
1030	0000	22.2C															
12/26/84	2328	7.3	351	--	--	--	--	--	--	--	--	7.0	--	--	--	--	
9580												11	--	--	--	--	
06/29/85	5050	7.7	315	--	--	--	--	--	--	--	--	14.0	--	--	--	--	
9580												2.0	--	--	--	--	
12/26/84	2328	6.8	728	--	--	--	--	--	--	--	--	26.0	--	--	--	--	
9580												42	--	--	--	--	
06/29/85	5050	7.7	670	--	--	--	--	--	--	--	--	26.0	--	--	--	--	
9580												42	--	--	--	--	
06/17/85	5701	68.0F	7.4	220	12.40	16.32	11.44	1.52	100	4.0	4.0	4.0	--	0	14.1	96	F
0800	5701	20.0C			23	34	20	2	2.00	1.0	2.3	0.5	64.0	1.0	0	0.7	
12/26/84	2328	7.8	216	--	--	--	--	--	--	--	--	11.0	--	--	--	--	
9580												1.8	--	--	--	--	
07/17/85	5050	7.4	215	--	--	--	--	--	--	--	--	11.0	--	--	--	--	
9580												1.8	--	--	--	--	
07/17/85	2328	7.2	370	--	--	--	--	--	--	--	--	34.0	--	--	--	--	
9580												55	--	--	--	--	
12/26/84	2328	7.4	486	--	--	--	--	--	--	--	--	33.0	--	--	--	--	
9580												53	--	--	--	--	
06/29/85	2328	7.9	240	--	--	--	--	--	--	--	--	4.0	--	--	--	--	
9580												0.6	--	--	--	--	
12/26/84	2328	6.8	884	--	--	--	--	--	--	--	--	42.0	--	--	--	--	
9580												6.8	--	--	--	--	
06/29/85	2328	7.2	1760	--	--	--	--	--	--	--	--	46.0	--	--	--	--	
9580												74	--	--	--	--	
06/17/85	5701	64.4F	7.4	235	12.40	16.32	13.23	1.22	102	5.0	4.0	11.0	--	0	14.1	96	F
0815	5701	18.0C			24	32	23	1	2.04	1.0	2.3	0.5	14.0	1.0	0	0.9	
08/12/85	5701	66.2F	7.8	210	17.83	13.23	16.44	1.72	115	3.0	6.0	2.0	--	1	192	102	F
1304	5701	19.0C			33	48	17	2	2.30	1.0	1.7	0.3	64.0	1.0	0	0.7	
12/26/84	2328	7.1	438	--	--	--	--	--	--	--	--	24.0	--	--	--	--	
9580												45	--	--	--	--	
06/20/85	2328	7.5	380	--	--	--	--	--	--	--	--	18.0	--	--	--	--	
9580												2.0	--	--	--	--	
12/26/84	2328	6.8	530	--	--	--	--	--	--	--	--	15.0	--	--	--	--	
9580												24	--	--	--	--	
06/20/85	2328	7.5	342	--	--	--	--	--	--	--	--	16.0	--	--	--	--	
9580												1.6	--	--	--	--	

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER								SAR	PERM
				CA	MG	NA	K	CACO3	SO4	CL	NO3	TURB	SiO2	TDS	SUM	TH	ASAP				
A A-13 A-13.0																					
SACRAMENTO HQ TEHAMA MU RED BLUFF NA																					
12/26/84	2328 0580		6.8 705	--	--	--	--	--	--	--	31.0 .50	--	--								
06/20/85	2328 0580		7.5 650	--	--	--	--	--	--	--	35.0 .56	--	--								
12/26/84	2328 0580		6.9 570	--	--	--	--	--	--	--	15.0 .24	--	--								
06/20/85	2328 0580		7.5 834	--	--	--	--	--	--	--	40.0 .65	--	--								
09/17/85 1100	5050 5050	57.0F 13.9C	7.0 380 8.5 390	20 1.40	22 1.01	15 .05	-- 17	134 2.68	--	15 .42	25.0 .40	--	--			161 27	0.5 0.9				
12/26/84	2328 0580		7.1 1070	--	--	--	--	--	--	--	12.0 .19	--	--								
06/20/85	2328 0580		7.4 278	--	--	--	--	--	--	--	11.0 .18	--	--								
08/12/85 1250	5701 5701	64.4F 18.0C	7.6 215	19 .93	12 .99	12 .52	1.0 .03	105 2.10	5.0 .10	8.0 .23	6.0 .10	--	.1 56.0	184 184	98 0	0.5 0.8					
06/17/85 0950	5701 5701	71.6F 22.0C	7.6 220	10 .50	16 1.32	12 .52	1.5 .04	100 2.00	4.0 .08	5.0 .14	4.0 .06	--	.1 86.0	174 178	85 0	0.6 0.8					
06/17/85 1015	5701 5701	66.2F 14.0C	7.2 430	38 1.00	22 1.01	18 .78	1.6 .04	174 3.48	10 .21	15 .42	24.0 .38	--	.0 45.0	278 278	186 12	0.6 1.2					
06/17/85 0917	5701 5701	66.2F 19.0C	7.3 380	33 1.05	19 1.56	16 .70	1.5 .09	134 3.08	10 .21	15 .42	18.0 .29	--	.0 45.0	249 250	162 7	0.5 1.0					
09/17/85 1430	5050 5050	68.0F 20.0C	6.8 320 8.5 311	22 1.10	16 1.32	14 .83	-- 26	135 2.70	--	12 .34	6.2 .10	--	--			121 0	0.8 1.3				
08/12/85 1600	5701 5701	64.4F 18.0C	7.4 305	28 1.40	17 1.41	13 .57	1.5 .04	137 2.74	6.0 .12	13 .37	9.0 .15	--	.1 40.0	218 214	140 3	0.5 0.9					
12/26/84	2328 0580		6.8 820	--	--	--	--	--	--	--	23.0 .37	--	--								
06/20/85	2328 0580		7.3 655	--	--	--	--	--	--	--	16.0 .26	--	--								
09/17/85 1130	5050 5050	65.0F 16.3C	7.0 225 8.4 229	17 .85	12 .99	12 .52	-- 22	96 1.92	--	9.0 .25	2.2 .04	--	--			92 0	0.5 0.8				
12/26/84	2328 0580		7.1 323	--	--	--	--	--	--	--	100 1.61	--	--								
06/20/85	2328 0580		7.1 860	--	--	--	--	--	--	--	81.0 1.31	--	--								
12/26/84	2328 0580		6.6 775	--	--	--	--	--	--	--	31.0 .50	--	--								
06/20/85	2328 0580		7.6 642	--	--	--	--	--	--	--	21.0 .34	--	--								
12/26/84	2328 0580		7.0 650	--	--	--	--	--	--	--	31.0 .50	--	--								
06/20/85	2328 0580		7.5 745	--	--	--	--	--	--	--	26.0 .42	--	--								

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER ID	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				TDS SUM	TH NCH	SAR ASAP	REM
				CA	MG	NA	K	CaCO3	SO4	CL	NO3	TPH	SiO2						
SACRAMENTO HR TENAMA HU RED BLUFF WA																			
12/26/84		2328 0940	22N/01E-33A02 M	7.0	845	--	--	--	--	--	--	52.0 .84	--	--					S
06/19/85		2328 0980		7.2	700	--	--	--	--	--	--	47.0 .76	--	--					
12/26/84		2328 0980	22N/01E-33J01 M	7.1	494	--	--	--	--	--	--	31.0 .50	--	--					S
06/19/85		2328 0980		7.4	420	--	--	--	--	--	--	31.0 .50	--	--					S
09/17/85		5050 1300	22N/01E-33N02 M	60.0F 15.9C	7.1 8.4	220 243	20 1.00	13 1.07	11 .48	-- 19	101 2.02	-- .25	9.0 .14	8.8 .14	--	--		104 3	0.5 0.7
06/24/85		5050 1110	22N/02E-17E01 M	7.1	220	--	--	--	--	--	--	--	--	--	--	--			
07/30/85		5050 1220	22N/01W-29C01 M	66.0F 18.9C	7.3	640	--	--	--	--	--	--	--	--	--	--			
07/30/85		5050 1145	22N/02W-03A04 M	66.0F 18.9C	7.4	750	--	--	--	--	--	--	--	--	--	--			
07/30/85		5050 1155	22N/02W-03A05 M	66.0F 18.9C	7.2 8.3	850 684	75 3.74	42 3.45	31 1.35	1.0 .03	245 4.90	61 1.27	56 1.58	52.0 .84	+1 10	--	469 115	360 1.7	0.7 1.7
07/30/85		5050 1130	22N/02W-04C02 M	60 F 18 C	7.2	590	--	--	--	--	--	--	--	--	--	--			S
07/30/85		5050 1110	22N/02W-07N01 M	73.0F 22.8C	7.2	530	--	--	--	--	--	--	--	--	--	--			S
07/30/85		5050 1045	22N/03W-06N01 M		7.8	510	--	--	--	--	--	--	--	--	--	--			S
06/24/85		5050 0930	23N/01W-09L01 M	66.0F 18.9C	7.1	625	--	--	--	--	--	--	--	--	--	--			S
06/24/85		5050 1000	23N/01W-16R01 M	65.0F 18.3C	7.4	505	--	--	--	--	--	--	--	--	--	--			S
06/18/85		5050 1345	23N/02W-04A02 M	63.0F 17.2C	7.0	460	--	--	--	--	--	--	--	--	--	--			S
06/18/85		5050 1335	23N/02W-04A04 M	64.0F 17.8C	7.0	485	--	--	--	--	--	--	--	--	--	--			S
06/08/85		5050 1350	23N/02W-05A01 M	71.0F 21.6C	7.8	330 333	20 1.00	15 1.23	--	--	--	--	5.0 .14	--	--	--		112	
06/19/85		5050 1150	23N/03W-27N01 M		7.4 8.3	425 435	40 2.00	18 1.48	21 .91	-- 21	168 3.36	--	21 .59	10.0 .16	--	--		174 6	0.7 1.4
06/15/85		5050 1205	23N/03W-35R02 M	74.0F 23.3C	7.3	400 407	41 2.05	16 1.32	--	--	--	--	20 .56	--	--	--		168	
06/18/85		5050 1215	24N/01W-36A02 M		7.3	267	--	--	--	--	--	--	--	--	--	--			S

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAR	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIGRAMS PER LITER							
				CA	MG	NA	K	PERCENT CALCD	REACTANCE SOL CL	VALU FOR	TYPE	SI	SI	SI	SI	SI	SI	SI	SI
.....																			
A A-13 A-13.8		SACRAMENTO HR TAMAMA HUI REN ALUFF NA																	
06/18/85 1245	5050 0000	24N/02W-14W01 M	73.0F 22.8C	7.1	380	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/18/85 1415	5050 0000	24N/02W-30C01 M		7.3	710	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/18/85 1435	5050 0000	24N/03W-14W01 M	72.0F 22.2C	7.6	249	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/19/85 1150	5050 0000	24N/03W-17W01 M		6.8	280	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/19/85 1115	5050 0000	24N/03W-20W01 M	67.0F 19.4C	6.9	220	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/18/85 1425	5050 0000	24N/03W-24W01 M	74.0F 23.3C	7.3	720	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/19/85 1430	5050 0000	25N/02W-07W01 M	64.0F 17.8C	7.2	580	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/18/85 1145	5050 0000	25N/02W-16W01 M	69.0F 20.5C	7.3	268	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/19/85 1450	5050 0000	25N/03W-01G02 M	72.0F 22.2C	7.0	560	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/19/85 1415	5050 0000	25N/03W-03W01 M	70.0F 21.1C	7.5	380	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/19/85 1340	5050 5050	25N/03W-22W01 M		7.1	340 351	22 1.10	19 1.56	--	--	--	--	24 .68	--	--	--	--	133	--	--
06/19/85 1030	5050 0000	25N/03W-31W01 M	73.0F 22.8C	7.1	520	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/19/85 1000	5050 0000	25N/04W-26W01 M	70.0F 21.1C	7.3	270	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/29/85 1130	5050 5050	25N/05W-17W01 M	69.0F 20.5C	8.2 7.2	525 522	12 .60	10 .82	9C 3.92	.7 .02	215 4.30	3.0 .06	99 1.10	.0 .03	.1 0	--	--	304 284	71 0	4.6 7.8
06/18/85 1125	5050 0000	26N/02W-15W01 M	73.0F 22.8C	7.0	235	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/18/85 1115	5050 0000	26N/02W-16C01 M	75.0F 23.9C	7.1	305	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/19/85 0905	5050 5050	26N/03W-03W01 M	68.0F 20.0C	7.1 8.3	460 458	43 2.15	23 1.89	16 .7C	.8 .02	177 3.54	26 .54	16 .45	15 .24	.0 5	.2 --	--	294 246	202 25	0.5 1.0
06/19/85 0900	5050 0000	26N/03W-04W01 M		7.0	310	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/19/85 1530	5050 5050	26N/03W-26C01 M		7.1 7.9	380 361	25 1.25	24 33	14 51	-- 16	136 2.72	--	12 .34	16.0 .26	--	--	--	161 29	0.5 0.9	--
06/19/85 0930	5050 0000	26N/03W-32W02 M	71.0F 21.6C	7.1	105	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER ID	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VAL				MILLIGRAMS PER LITER				REMARKS				
				CA	MG	NA	K	CaCO3	SO4	CL	NO3	THO4	SiO2	TPH	TH		Fe	ASAR		
SACRAMENTO HA TEHAMA HILL DEN BLUFF HA																				
06/19/85 1515	5050 0000	26N/03W-38F01 M	68.0F 20.0C	7.7	390	--	--	--	--	--	--	--	--	--	--	--	--	--	3	
06/19/85 1500	5050 0000	26N/03W-36F01 M	74.0F 23.3C	7.6	425	--	--	--	--	--	--	--	--	--	--	--	--	--	3	
06/19/85 1750	5050 0000	26N/04W-10001 M		7.6	380	--	--	--	--	--	--	--	--	--	--	--	--	--	3	
06/19/85 1625	5050 0000	27N/02W-30C02 M	75.0F 23.9C	7.0	295	--	--	--	--	--	--	--	--	--	--	--	--	--	3	
06/06/85 1400	5050 0050	27N/03W-03H01 M	74.0F 23.3C	8.0 7.9	700 680	28 1.40	12 .99	9C 3.92	5.3 .14	128 2.56	2.0 .04	134 3.78	1.0 .02	1.4 1	418 350	120 0	3.6 5.9			
06/06/85 1545	5050 0050	27N/03W-03H01 M	72.0F 22.2C	7.8 8.0	290 279	22 1.10	11 .90	31 1.33	2.8 .07	128 2.56	8.0 .17	9.0 .25	4.0 .00	4.0 8	209 156	80 0	1.9 2.3	E T		
06/06/85 1535	5050 0050	27N/03W-03F02 M	72.0F 22.2C	7.6 8.1	380 366	29 1.45	11 .90	3C 1.31	3.4 .09	127 2.54	39 .81	15 .42	4.0 .00	4.0 21	271 204	118 0	1.2 2.0	E T		
06/06/85 1340	5050 0050	27N/03W-03F03 M	73.0F 22.8C	8.0 8.2	285 283	16 .70	5.0 .41	38 1.65	3.0 .08	123 2.46	-- 27	32 14	1 56	1 3	-- 34	-- .00	-- 60	2.1 3.0	5	
07/01/85 1000	5050 0050	27N/03W-03F04 M	65.0F 18.3C	7.9 8.4	303 290	19 .95	5.0 .41	36 1.57	2.9 .07	125 2.50	7.0 .15	10 .28	4.0 .00	4.0 5	208 155	68 0	1.9 2.8	F T		
06/19/85 0740	5050 0000	27N/03W-08H01 M	64.0F 20.0C	7.1	115	--	--	--	--	--	--	--	--	--	--	--	--	--	9	
06/04/85 1100	5050 0050	27N/03W-09F01 M	68.0F 20.0C	7.1 7.6	290 288	28 1.10	13 .97	14 35	2.1 2.0	130 2.88	7.0 .15	9.0 .34	4.4 .07	4.4 5	201 149	119 0	0.6 1.0	E T		
08/23/85 1000	5050 0050	27N/03W-09F02 M		8.5	415	40 2.00	22 1.81	12 4.1	2.7 .52	155 3.10	31 .65	11 .31	4.4 .55	4.4 7	370 246	191 36	0.4 0.7	E T	3	
06/04/85 1010	5050 0050	27N/03W-10F01 M	68.0F 20.0C	7.3 7.8	340 362	24 1.20	16 1.32	23 2.0C	2.6 .07	92 1.84	62 1.29	14 .39	4.4 .07	4.4 11	2 2	272 201	126 24	0.9 1.4	E T	
06/06/85 1105	5050 0050	27N/03W-10F02 M	72.0F 22.2C	7.4 8.0	280 274	16 .80	8.0 .66	27 1.17	2.8 .07	84 1.68	36 .75	7.0 .20	7.5 .12	7.5 27	230 195	73 0	1.4 1.8	E T		
06/06/85 1420	5050 0050	27N/03W-10C01 M		7.3	355	24 1.20	12 .99	33 1.44	3.2 .08	127 2.54	31 .65	16 .45	3.9 .06	4.4 18	257 199	110 0	1.4 2.3	E T		
06/06/85 1140	5050 0050	27N/03W-10C01 M	71.0F 21.6C	7.6 8.1	420 415	15 .75	7.0 .98	6C 2.61	3.8 .10	113 2.26	27 .56	43 1.21	2.4 .04	2.4 14	290 226	66 0	3.2 4.4	E T		
06/06/85 1204	5050 0050	27N/03W-10G02 M	72.0F 22.2C	7.3 7.4	365 355	22 1.10	16 1.32	28 2.22	3.2 .08	108 2.18	29 .60	23 .05	6.2 .12	6.2 17	3 3	288 192	121 13	1.1 1.8	F T	5
07/01/85 0930	5050 0050	27N/03W-10G03 M	64.0F 14.9C	7.0 8.3	400 551	44 2.20	34 2.80	25 1.04	3.9 .10	167 3.34	52 1.10	28 .73	16.0 .55	16.0 19	286 322	250 83	0.7 1.4	E T	5	
06/04/85 1030	5050 0050	27N/03W-10H01 M	64.0F 17.8C	8.0 8.0	285 283	15 .75	4.0 .66	3F 1.65	3.2 .08	123 2.46	6.0 .12	11 .31	4 .00	4 11	214 153	62 0	2.1 3.0	E T		
07/11/85 0930	5050 0050	27N/03W-11I01 M	70.0F 21.1C	7.2 8.0	450 454	9.0 10	8.0 15	72 72	1.8 1	98 48	18 .37	60 1.09	3.1 .05	3.1 4	296 240	56 0	4.2 5.2			

MINERAL ANALYSES OF GROUND WATER

DATE	SAMPLER LAT	TEMP F	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER R F TDS				REMARKS
					CA	MG	NA	K	CaCO3	SO4	CL	NO3	TURB	SIG	TH	KAR	
A-13 A-13.R SACRAMENTO RR TENAWA HU REN RUFF NA																	
07/19/85 0910	5050 5050	70.0F 21.1C	7.2 8.0	600 616	13 11	9.0 7.4	10C 4.35	1.7 .04	104 2.08	.81 13	112 51	9.7 .16	2.2 ---	379 349	70 0	5.2 7.0	S
07/19/85 0840	5050 5050	65.0F 18.3C	7.1 8.0	600 614	21 1.05	16 1.32	8C 3.48	1.4 .04	132 2.64	7.0 .15	93 2.42	26.0 .42	1.0 ---	343 325	119 0	3.2 4.3	
07/19/85 0805	5050 5050	67.0F 19.4C	7.2 8.2	980 980	24 1.20	18 1.48	143 6.22	2.5 .06	129 2.58	11 .23	219 6.18	2.3 .04	3.2 ---	558 500	134 5	5.4 9.0	
07/19/85 0830	5050 5050	65.0F 18.3C	7.6 8.2	540 443	22 1.10	15 1.23	6C 2.61	2.4 .06	170 3.40	9.0 .10	36 1.62	20.0 .32	.4 ---	310 267	117 0	2.4 4.3	
06/28/85 5050	5050 5050	69.0F 20.9C	7.3 8.4	460 459	19 .95	14 1.15	59 2.57	2.2 .06	166 3.32	9.0 .19	31 .87	20.0 .32	.4 ---	300 255	105 0	2.4 4.3	
07/19/85 0945	5050 5050	67.0F 19.4C	7.2 8.2	500 542	21 1.05	15 1.23	62 2.7C	2.3 .06	113 2.26	6.0 .12	93 2.57	9.3 .14	1.4 ---	319 276	114 1	2.5 4.0	
06/28/85 5050	5050 5050	67.0F 19.4C	7.1 8.4	470 465	39 1.95	26 2.14	29 1.26	2.6 .04	19C 3.40	14 .29	22 .62	20.0 .32	.2 ---	299 267	205 15	0.9 1.8	S
07/22/85 0930	5050 5050	65.0F 14.3C	7.0 8.2	500 494	39 1.90	26 2.14	28 1.22	2.1 .05	194 3.88	12 .25	28 .79	21.0 .34	.2 ---	314 272	202 8	0.9 1.8	
06/04/85 1310	5050 5050	61.0F 16.1C	6.7 8.1	700 694	37 1.89	32 2.63	5C 2.11	1.4 .04	161 3.22	17 .35	98 2.76	23.0 .37	1.1 ---	430 356	224 63	1.5 2.9	
06/04/85 0940	5050 5050	65.0F 18.3C	6.9 8.1	575 569	49 2.45	32 2.63	18 .78	2.0 .01	211 4.22	28 .58	28 .79	27.0 .44	.0 ---	340 311	254 43	0.5 1.1	
06/04/85 0950	5050 5050	74.0F 23.3C	7.3 8.2	320 306	23 1.15	9.0 1.15	24 1.04	3.6 .09	117 2.34	12 .25	13 .37	7.5 .12	.1 ---	229 162	94 0	1.1 1.7	E T
06/04/85 0925	5050 5050	65.0F 18.3C	7.0 8.3	640 617	50 2.50	36 2.96	22 .96	2.3 .06	221 4.42	19 .40	43 1.21	27.0 .44	.4 ---	401 332	273 52	0.6 1.3	
06/06/85 0805	5050 5050	66.0F 18.9C	6.4 7.4	710 693	31 1.55	28 2.30	66 2.67	1.6 .04	174 3.48	13 .27	105 2.96	5.8 .90	1.3 ---	412 356	193 19	2.1 4.1	
06/06/85 1345	5050 5050	72.0F 22.2C	7.1 7.7	615 602	30 1.50	24 1.97	53 3.31	1.6 .04	139 2.78	8.0 .17	97 2.74	8.1 .11	1.1 ---	342 304	174 35	1.7 3.3	
06/05/85 1515	5050 5050	70.0F 21.1C	6.8 7.9	675 647	46 2.30	37 3.04	28 1.22	1.6 .04	144 3.68	27 .56	69 1.95	27.0 .44	.4 ---	413 344	267 83	0.7 1.6	
06/06/85 1025	5050 5050	7.0 8.0	650 640	31 1.55	28 2.30	54 3.35	1.3 .03	151 3.02	13 46	99 .27	8.8 2.79	1.1 .14	1.1 ---	408 327	193 42	1.7 3.3	
06/04/85 0905	5050 5050	68.0F 20.0C	7.1 8.3	660 652	48 2.40	31 2.95	38 1.66	2.7 .07	194 3.6C	20 .42	60 1.66	34.0 .54	.7 ---	427 352	248 52	1.1 2.3	
06/06/85 0915	5050 5050	70.0F 21.1C	6.9 7.6	645 627	38 1.90	33 2.71	46 1.74	1.5 .04	19C 3.80	70 .42	44 1.92	16.3 .26	.6 ---	392 331	231 41	1.1 2.4	
06/06/85 0850	5050 5050	71.0F 21.6C	7.1 7.8	520 509	27 1.35	22 1.81	42 1.87	1.6 .04	144 2.88	13 .27	58 1.64	18.0 .29	.8 ---	317 270	158 14	1.5 2.7	
06/06/85 0840	5050 5050	68.0F 20.0C	7.5 8.0	350 345	31 1.55	16 1.32	17 1.74	2.5 .06	356 3.12	12 .25	6.0 .17	8.4 .14	.0 ---	246 186	144 0	0.4 1.1	E T

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAR	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER PERCENT REACTANCE VALUE					REM
					CA	MG	NA	K		STA	CL	NO3	THI	SI	TDS	TH	SO4	AS40		
A-13 A-13.B SACRAMENTO HA TEHAMA MU RED BLUFF NA																				
06/24/85	5050	27H/03W-28A02 M	64.0F 17.6C	7.1 8.4	340 331	1.35 36	1.44 40	.83 22	2.0 1	126 74	26 16	6.0 5	12.0 10	.2 6	210 186	142 16	0.7 1.2		5	
06/21/85 1300	5050	27H/03W-28C03 M	71.0F 22.8C	7.1 8.0	235 227	26 48	12 36	10 18	-- 1	89 1.78	-- --	4.0 11	6.5 10	-- --	-- --	115 26	0.4 0.6			
06/18/85 0930	5050	27H/03W-31A01 M	69.0F 20.5C	7.5 8.0	265 260	22 40	10 20	14 30	1.2 1	23 46	-- --	3.0 0.8	4.9 0.8	-- --	.2 --	96 73	0.8 0.7		5	
06/14/85 0835	5050 0000	27H/04W-01H02 M	70.0F 21.1C	7.3	242	--	--	--	--	--	--	--	--	--	--	--	--		5	
06/18/85 0850	5050 0000	27H/04W-03J01 M		7.3	242	--	--	--	--	--	--	--	--	--	--	--	--		5	
06/27/85 0800	5050 5050	27H/04W-05602 M	71.0F 21.6C	7.7 8.3	300 301	22 33	15 37	22 29	.7 1	192 3.04	3.0 2	5.0 14	3.6 0.8	.1 2	170 163	117 0	0.9 1.6			
06/18/85 0905	5050 0000	27H/04W-12F01 M	72.0F 22.2C	7.5	268	--	--	--	--	--	--	--	--	--	--	--	--			
06/18/85 0910	5050 0000	27H/04W-24C01 M	73.0F 22.8C	7.3	300	--	--	--	--	--	--	--	--	--	--	--	--			
06/19/85 0730	5050 0000	27H/04W-26J01 M	72.0F 22.2C	6.8	320	--	--	--	--	--	--	--	--	--	--	--	--			
06/18/85 0800	5050 0000	28H/03W-28A01 M	71.0F 21.6C	7.4	600	--	--	--	--	--	--	--	--	--	--	--	--			
06/18/85 0820	5050 0000	28H/03W-29601 M	67.0F 19.4C	7.1	559	--	--	--	--	--	--	--	--	--	--	--	--			
07/17/85 5867	8200 5867	A-14 A-14.C A-14.C1 28H/06W-29C01 M			STONY CREEK MU FOOTS SPRINGS HA MIDDLE FORK STONY HSA	7.1	400 2.20 53	44 90 22	23 1.00 24	2.0 0.05 1	145 2.90 74	3.0 0.06 2	34 96 24	.0 0.00 0	-- -- --	.2 -- --	225 204	153 10	0.8 1.5	5
07/01/85 0815	5050 5050	A-17 A-17.A 29H/03W-05602 M			RENDING MU ENTERPRISE FLAT HA	68.0F 20.0C	6.8 210 209	15 75	12 90	-- --	-- --	3.0 0.8	-- --	-- --	-- --	17			5	
07/01/85 0815	5050 0000	30H/03W-04A01 M	67.0F 19.4C	7.1	197	--	--	--	--	--	--	--	--	--	--	--	--		5	
07/01/85 0740	5050 5050	30H/03W-18F02 M	73.0F 22.8C	7.1 8.3	203 201	15 75 35	13 1.07 49	8.0 35 16	-- 1.96	93 1.96	-- --	2.0 0.8	4.9 0.8	-- --	-- --	91 0	0.4 0.5		5	
07/01/85 0839	5050 0000	30H/03W-34A01 M	69.0F 20.9C	6.8	320	--	--	--	--	--	--	--	--	--	--	--	--		5	
07/01/85 0800	5050 0000	30H/04W-01E01 M	65.0F 18.3C	7.3	180	--	--	--	--	--	--	--	--	--	--	--	--		5	
07/01/85 0859	5050 0000	30H/04W-08B01 M	68.0F 20.0C	7.1	130	--	--	--	--	--	--	--	--	--	--	--	--			

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				TDS SI-M	TN MCM	CAP ASAP	DEP
				CA	MG	NA	K	CO3	SO4	CI	NO3	TUPE	SIO2						
SACRAMENTO HA REDDING HU ENTERPRISE FLAT HA																			
07/01/RS 0945	A-17 A-17.A 30N/04W-15M03	5050 0000	69.0F 20.4C	6.8	205	--	--	--	--	--	--	--	--	--	--	--	--	--	5
07/01/RS 0930	30N/04W-36M01	5050 0000	69.0F 20.0C	7.1	220	--	--	--	--	--	--	--	--	--	--	--	--	--	5
07/01/RS 1503	31N/03W-05J01	5050 0000	71.0F 21.6C	6.7	215	--	--	--	--	--	--	--	--	--	--	--	--	--	5
07/01/RS 1850	31N/03W-10M02	5050 0000	69.0F 18.3C	6.5	195	--	--	--	--	--	--	--	--	--	--	--	--	--	5
07/03/RS 0845	31N/03W-12E01	5050 5050	66.0F 18.9C	7.0 6.2	182 180	19 .95	8.0 .68	9.0 .35	2.6 .07	84 1.68	3.0 3	4.0 1.4	1.9 .03	.0 2	--	107 99	80 0	0.4 0.6	5
07/01/RS 1050	31N/04W-12401	1050 5050	69.0F 20.5C	7.3	300 301	13 .65	9.0 .74	--	--	--	--	26 .73	--	--	--	--	70	--	5
07/01/RS 1430	31N/04W-15M01	5050 0000	72.0F 22.2C	7.1	220	--	--	--	--	--	--	--	--	--	--	--	--	--	5
07/01/RS 1400	31N/04W-15M03	5050 0000	72.0F 22.2C	7.0	200	--	--	--	--	--	--	--	--	--	--	--	--	--	5
07/01/RS 1340	31N/04W-20J01	5050 0000	72.0F 22.2C	7.0	240	--	--	--	--	--	--	--	--	--	--	--	--	--	5
07/01/RS 1020	31N/05W-25M01	5050 0000	69.0F 20.0C	7.2	300	--	--	--	--	--	--	--	--	--	--	--	--	--	5
07/03/RS 0900	32N/03W-35C01	5050 5050	73.0F 22.8C	6.8 6.7	375 373	23 1.15	18 1.32	2.7 1.17	2.5 .06	116 2.32	3.0 .06	4.0 1.27	.0 .00	.1 0	--	247 186	124 8	1.1 1.8	7
4-17.A LOWER COTTONWOOD HA																			
07/01/RS 0745	29N/04W-11G04	5050 0000	68.0F 20.0C	7.1	180	--	--	--	--	--	--	--	--	--	--	--	--	--	5
07/01/RS 0900	30N/04W-35M01	5050 0000	68.0F 20.0C	6.8	200	--	--	--	--	--	--	--	--	--	--	--	--	--	5
08/05/RS 1200	A-23 A-23.C A-23.C1 37N/05E-01C01	5050 5050	62.0F 16.7C	7.8 8.4	230 207	14 .70	5.0 .41	2.2 .96	-- 46	85 1.70	--	5.0 .14	--	.1	--	56 0	1.3 1.6	--	5
08/05/RS 0940	37N/05E-19C01	5050 0000	63.0F 17.2C	7.2	300	--	--	--	--	--	--	--	--	--	--	--	--	--	5
08/05/RS 1145	37N/06E-19L01	5050 0000	62.0F 16.7C	7.7	355	--	--	--	--	--	--	--	--	--	--	--	--	--	5
08/05/RS 1220	38N/06E-31M01	5050 0000	61.0F 16.1C	8.1	190	--	--	--	--	--	--	--	--	--	--	--	--	--	5
08/05/RS 1345	A-23.0 A-23.01 37N/07E-02M01	5050 0000	67.0F 19.4C	7.3	230	--	--	--	--	--	--	--	--	--	--	--	--	--	5

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER																			
DATE TIME	SAMPLER LAR	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS	IN	MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER				PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE					
						Ca	Mg	Na	K	CaCO3	SO4	Cl	NO3	TURB	SILT	TDS SUM	TN	NH4	ACID
A-23 A-23.0 A-23.01 37N/07E-13401 M																			
08/05/85 1450	5050 0000	60.0F 15.5C	7.0	1280	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
38N/07E-02P01 M																			
08/05/85 1415	5050 5050	68.0F 20.0C	7.1 8.5	940 519	31 1.55 30	1M 1.48 29	4C 2.13 41	--	194 3.88	--	42 1.1M	8.0 .13	--	--	--	152 0	1.7 3.4	--	5
38N/07E-23001 M																			
08/05/85 1330	5050 0000	72.0F 22.2C	7.3	220	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
38N/07E-28N09 M																			
08/05/85 1230	5050 0000	64.0F 17.4C	7.1	190	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
38N/07E-32406 M																			
08/05/85 1245	5050 0050	62.0F 16.7C	7.3 8.4	200 182	10 90 26	8.0 6.6 34	18 7.7 40	--	99 1.78	--	6.0 .17	4.0 .06	--	--	--	59 0	1.0 1.3	--	5
38N/08E-17K01 M																			
08/05/85 1515	5050 0000	66.0F 18.9C	7.5	220	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
38N/08E-30R01 M																			
08/05/85 1435	5050 0000	65.0F 18.3C	7.1	930	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
38N/09E-21L01 M																			
08/05/85 1525	5050 0000	70.0F 21.1C	7.5	329	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
39N/07E-13001 M																			
08/05/85 1600	5050 0000	63.0F 17.2C	7.0	240	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
39N/08E-23402 M																			
08/05/85 1620	5050 0000	60.0F 15.5C	6.9	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
39N/09E-28F20 M																			
08/05/85 1630	5050 0000	61.0F 17.2C	7.4	185	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
A-23.E A-23.E1 41N/11E-01F03 M																			
08/05/85 1755	5050 0000	70.0F 21.1C	7.2	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
41N/11E-10602 M																			
08/05/85 1745	5050 5050	60.0F 15.5C	8.4 8.7	460 480	1.0 90 1	.0 6.30 0	101 4.30 95	7.8 .19 4	159 3.18 70	41 .95 10	19 .51 11	.4 .01 .0	.2	--	320 269	2 0	31.1 0.0	--	5
42N/10E-22601 M																			
08/05/85 1655	5050 5050	67.0F 19.4C	7.4 8.4	320 309	23 1.15 37	10 9.2 26	26 1.13 36	--	128 7.56	--	4.0 .11	5.3 .00	--	--	--	98 0	1.1 1.0	--	5
42N/11E-18401 M																			
08/05/85 1715	5050 0000	60.0F 15.5C	7.4	160	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
A-23.E2 30N/13E-08001 M																			
08/08/85 1320	5050 5050	70.0F 21.1C	7.0 8.7	500 476	30 1.95 39	16 1.32 26	36 1.57 31	6.9 .18 4	179 3.56 72	16 .33 7	16 .45 9	17.0 .60 17	.0	--	373 274	164 0	1.2 2.4	--	5
40N/13E-30P01 M																			
08/05/85 1305	5050 0000	73.0F 22.4C	8.0	275	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
41N/12E-12L01 M																			
08/05/85 1140	5050 0000	64.0F 17.8C	7.4	1000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
41N/12E-27P01 M																			
08/08/85 1245	5050 0000	75.0F 23.9C	8.3	270	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATERS

DATE TIME	SAMPLER LAR	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN	MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				REM	
					Ca	Mg	Na	K	PERCENT CaCO3	PERCENT MgCO3	PERCENT NaCl	PERCENT KCl	PERCENT NaHCO3	PERCENT KHCO3	PERCENT Na2CO3	PERCENT K2CO3		
SACRAMENTO HR PIT RIVER WJ UPPER PIT RIVER HA ALTIRAS HSA																		
04/05/85 1830	5050 0600	62.0F 16.7C	7.3 220	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	S	
04/07/85 1650	5050 0000	65.0F 18.3C	7.7 340	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	S	
04/08/85 1230	5050 5050	69.0F 20.0C	7.2 400 386	30 1.90 34	9.0 .74 19	34 1.48 38	8.0 .20 5	12% 2.50 85	26 .54 14	24 .46 18	8.4 .14 4	.3 --	-- --	287 214	112 0	1.4 2.3	E T	
04/09/85 1030	5050 0000	70.0F 21.1C	7.3 345	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	S	
04/09/85 1055	5050 0000	62.0F 18.7C	7.6 310	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	S	
04/09/85 0845	5050 0000	60.0F 15.5C	7.1 630	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	S	
A-24 A-24.4 LAKEVIEW WJ DAVIS CREEK HA																		
04/05/85 0920	5050 0000	70 F 21 C	7.6 330	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	S	
04/05/85 0900	5050 0000	63.0F 17.2C	7.0 310	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	S	
04/06/85 1115	5050 5050	65.0F 18.3C	7.3 190 178	17 .85 45	4.0 .33 18	16 .7C 37	-- --	-- --	-- --	1.0 .03	-- --	.1 --	.4 --	-- --	59	0.0		
04/05/85 1100	5050 0000	56.0F 13.3C	6.9 185	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	S	
04/06/85 1150	5050 5050	55.0F 12.8C	6.8 350 340	38 1.90 54	11 .70 26	16 .7C 3C	-- --	-- --	-- --	7.0 .20	-- --	-- --	-- --	-- --	140	0.0		

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER																			
DATE TIME	SAMPLER LAR	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				PERCENT REACTANCE VALUE			
				CA	MG	NA	K	CO ₃	SO ₄	CL	NO ₃	TURB	STOP	TDS	TH	SAR	REH		
R 8-01 SAN JOAQUIN WA SAN JOAQUIN DELTA HU																			
06/01/85 1330	5050 5050		7.3 8.7	1315 1270	90 33	40 26	113 35	-- 4.40	230 5.39	-- 191	-- 5.39	-- 5.39	-- 5.39	300 150	2.5 5.0				
07/10/85 0900	5050 5050	68 F 20 C	7.9 8.4	1277 1290	53 18	30 17	226 66	-- 0.47	424 0.47	-- 1.66	-- 4.68	-- 4.68	-- 4.68	250 0	6.1 14.0				
08/16/85 1540	5701 5701	68 F 20 C	8.0 8.0	245 245	4.0 7	2.0 16	30 6	119 0.02	2.38 1.02	4.0 3	17 16	1.0 1	-- 58.0	216 0	1.8 5.1				
09/05/85 1500	5701 5701	64 F 18 C	8.0 8.0	320 320	8.0 13	4.0 10	36 76	127 1	2.54 77	2.0 1	24 21	1.0 1	-- 36.0	228 0	4.0 4.6				
07/09/85 0830	5050 5050	66 F 19 C	8.1 8.0	927 944	18 10	9.0 74	178 7.74	2.6 0.7	174 3.48	6.0 12	191 5.39	0 0.00	1.1 --	148 510	82 0	8.6 13.6			
07/24/85 1100	5701 5701	68 F 20 C	7.9 7.9	325 325	14 70	4.0 33	1.9 2.22	132 0.03	2.64 2.64	11 23	15 42	1.0 0.02	-- 58.0	234 0	3.1 4.2				
08/21/85 1330	5701 5701	64 F 18 C	7.9 7.9	335 335	13 16	6.0 12	1.3 72	164 1	3.22 70	1.0 0	29 20	1.0 0	-- 54.0	272 0	4.0 5.8				
07/24/85 1130	5701 5701	68 F 20 C	8.0 8.0	375 375	24 1.20	12 99	1.6 1.87	198 0.04	3.12 3.12	12 23	24 68	1.0 0.02	-- 47.0	258 0	1.8 3.1				
09/05/85 1100	5701 5701	64 F 18 C	7.9 7.9	270 270	15 75	6.0 49	2.2 1.52	113 0.06	2.26 2.26	8.0 17	13 42	1.0 0.02	-- 30.0	180 0	1.9 2.6				
02/21/85 1700	5050 0000	63 F 17 C		1245	--	--	--	--	--	--	--	--	--	--	--				
05/02/85 1445	5050 0000				1134	--	--	--	--	--	--	--	--	--	--				
06/05/85 1500	5050 0000				1124	--	--	--	--	--	--	--	--	--	--				
07/02/85 1115	5050 0000				1172	--	--	--	--	--	--	--	--	--	--				
08/01/85 1130	5050 0000				1128	--	--	--	--	--	--	--	--	--	--				
02/21/85 1615	5050 0000				1734	--	--	--	--	--	--	--	--	--	--				
05/02/85 1300	5050 0000				1782	--	--	--	--	--	--	--	--	--	--				
06/05/85 1500	5050 0000				1664	--	--	--	--	--	--	--	--	--	--				
07/02/85 0945	5050 0000				1626	--	--	--	--	--	--	--	--	--	--				
08/01/85 1100	5050 0000				1614	--	--	--	--	--	--	--	--	--	--				
02/21/85 1530	5050 0000	62 F 17 C		1748	--	--	--	--	--	--	--	--	--	--	--				
05/02/85 1400	5050 0000				1673	--	--	--	--	--	--	--	--	--	--				
06/05/85 1415	5050 0000				1660	--	--	--	--	--	--	--	--	--	--				
07/02/85 1030	5050 0000				1684	--	--	--	--	--	--	--	--	--	--				
08/01/85 1130	5050 0000				1710	--	--	--	--	--	--	--	--	--	--				

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAR	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				REMARKS
					CA	MG	NA	K	PERCENT CACN3	SDA	CL	NO3	VALU TTPR	A	P	TDS SUM	TH NCH	SAR ASAR			
A-01																					
SAN JOAQUIN NR																					
SAN JOAQUIN DELTA MI																					
03N/05E-2A-01 M																					
02/21/85	5050	63	F	246R	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
1430	0000	17	C																		
05/02/85	5050			2320	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	0000																				
06/05/85	5050			2353	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	1000																				
07/02/85	5050			2109	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	0000																				
08/01/85	5050			1916	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	0030																				
03N/05E-26L01 M																					
02/21/85	5050			524	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	1345																				
05/02/85	5050			478	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	0000																				
06/05/85	5050			407	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	0000																				
07/02/85	5050			512	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	0000																				
08/01/85	5050			481	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	0000																				
04N/05E-08N02 M																					
02/21/85	5050			246	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	0900																				
05/01/85	5050			220	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	1130																				
06/04/85	5050			257	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	1030																				
07/01/85	5050			259	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	1130																				
07/31/85	5050			262	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	0000																				
04N/05E-08N03 M																					
05/01/85	5050			1392	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	1445																				
06/06/85	5050			1242	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	0000																				
07/02/85	5050			1134	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	1300																				
07/31/85	5050			839	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	1315																				
04N/05E-08N01 M																					
02/21/85	5050	63	F	420	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	1230	17	C																		
05/01/85	5050	69	F	396	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	1530	16	C																		
06/04/85	5050			401	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	1400																				
07/01/85	5050			388	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	1145																				
07/31/85	5050			389	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	1144																				

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATERS																			
DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				TDS	TH	SAR	DEM
				CA	MG	NA	K	CaCO3	SO4	Cl	NO3	TDS	STG2	SIUW	MGH				

R-01		SAN JOAQUIN NR SAN JOAQUIN DELTA HU																	
02/21/85 0950	5050 0000			714	--	--	--	--	--	--	--	--	--	--	--				
05/01/85 1300	5050 0000			784	--	--	--	--	--	--	--	--	--	--	--				
06/04/85 1030	5050 0000			876	--	--	--	--	--	--	--	--	--	--	--				
07/01/85 1430	5050 0000			975	--	--	--	--	--	--	--	--	--	--	--				
07/31/85 1500	5050 0000			1122	--	--	--	--	--	--	--	--	--	--	--				
R-02		NORTH DIABLO RANGE HU																	
02/21/85 1040	5050 0000			2122	--	--	--	--	--	--	--	--	--	--	--				
05/01/85 1345	5050 0000			2440	--	--	--	--	--	--	--	--	--	--	--				
06/06/85 1000	5050 0000			2478	--	--	--	--	--	--	--	--	--	--	--				
07/01/85 1400	5050 0000			2592	--	--	--	--	--	--	--	--	--	--	--				
07/31/85 1415	5050 0000			2652	--	--	--	--	--	--	--	--	--	--	--				
R-03		NORTH VALLEY FLOOR HU LOWER CONSUMERS-DRY HA NEPALO HSA																	
08/01/85 1430	5050 5050	72 F	7.9	2015	30	12	370	--	258	--	395	--	--	--		125	14.4		
		22 C	8.4	1970	1.50	.09	16.15	5.15		11.14						0	27.0		
07/09/85 1200	5050 5050	66 F	7.7	1944	53	92	298	--	219	--	274	--	--	--		346	7.0		
		19 C	8.3	1960	2.64	4.28	12.96	4.38		7.73						127	14.6		
07/09/85 1115	5050 5050	68 F	7.5	1698	165	72	164	--	174	--	310	--	--	--		758	2.6		
		20 C	8.2	1900	9.23	5.92	7.13	3.48		8.74						588	4.4		
					41	27	32												
R-04		NORTH VALLEY FLOOR HU LOWER CONSUMERS-DRY HA NEPALO HSA																	
07/25/85 1400	5050 5050	67 F	7.5	1710	87	64	196	5.2	274	218	208	60.0	.7	--	1070	481	3.9		
		19 C	8.4	1650	4.34	5.26	8.61	.13	5.47	4.94	5.87	.97		--	1004	207	9.8		
					24	29	47	1	32	27	35	6							
07/16/85 1300	5050 5050	69 F	7.3	147	6.0	3.0	21	--	53	--	6.0	--	--	--		28	1.7		
		21 C	7.0	155	.30	.25	.91	1.06			.17					0	1.1		
					21	17	62												
07/12/85 1015	5050 5050			7.3	130	11	6.0	16	--	52	--	5.0	--	--	--	52	1.0		
				8.3	143	.55	.89	.70	1.04		.14					0	1.0		
					32	28	46												
07/17/85 1015	5050 5050	68 F	7.3	196	13	8.0	14	--	68	--	9.0	--	--	--		96	0.0		
		20 C	8.1	198	.65	.66	.70	1.36			.25					0	1.0		
					32	33	35												
07/16/85 1330	5050 5050	73 F	7.3	202	3.0	1.0	46	--	67	--	6.0	--	--	--		12	5.0		
		23 C	7.4	212	.15	.08	1.74	1.34			.17					0	2.3		
					8	4	88												
07/17/85 1300	5050 5050	67 F	7.3	245	22	13	12	--	109	--	6.0	--	--	--		109	0.4		
		19 C	8.0	259	1.10	1.07	.52	2.18			.14					0	0.4		
					.41	.40	1.0												
07/16/85 1430	5050 5050			7.3	230	19	11	12	--	96	--	5.0	--	--	--	92	0.5		
				7.7	237	.95	.90	.52	1.92		.14					0	0.4		
					40	38	22												
07/16/85 1400	5050 5050	68 F	7.3	248	18	12	17	--	103	--	12	--	--	--		94	0.8		
		20 C	7.3	255	.90	.90	.74	2.04			.34					0	1.2		
					34	38	24												

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER L&A	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER PERCENT REACTANCE VALUE					
					CA	MG	NA	K	CaCO3	SO4	Cl	NO3	R	F	TDS SUM	TH NCH	SAR A&B	RFM
R-03 R-03.R SAN JUAN VALLEY FLDOR HI LOWER FORTYFIVE HA																		
07/11/85 1015	5050 5050	65 18	F C	7.5 8.4	538 571	68 31.9	24 54	26 32	-- 1.87	105 3.90	-- 1.11	40 --	-- --	-- --	268 73	0.5 1.2		
07/24/85 1400	5701 5701	64 18	F C	7.7 7.7	425 440	70 3.49	28 2.30	28 32	3.0 1.22	233 4.66	63 1.31	33 0.93	2.0 0.03	-- 45.0	290 412	0.7 1.6		
07/15/85 1040	5701 5701	64 18	F C	7.4 7.4	340 340	28 1.40	13 1.07	26 1.13	4.0 0.13	148 2.96	18 0.37	11 0.31	1.0 0.02	-- 54.0	122 244	1.0 1.8		
07/15/85 1125	5701 5701	64 18	F C	7.7 7.7	440 440	20 1.04	20 1.00	23 0.13	5.1 0.13	184 3.68	12 0.67	10 0.28	4.0 0.06	-- 51.0	182 299	0.7 1.5		
07/11/85 0945	5050 5050	64 18	F C	7.5 8.4	861 865	43 2.15	30 33	43 38	-- 1.87	202 4.04	-- 0.93	-- --	-- --	-- --	231 29	1.2 2.6		
07/11/85 1245	5050 5050	65 18	F C	7.1 8.4	585 611	66 3.29	29 2.38	46 2.33	-- 0.27	204 4.08	-- 0.73	-- --	-- --	-- --	284 80	1.3 2.8		
07/11/85 0800	5050 5050	65 18	F C	7.7 8.5	501 531	57 2.84	24 1.97	57 2.48	-- 4.52	226 4.52	-- 0.25	-- --	-- --	-- --	241 15	1.6 3.5		
07/11/85 0900	5050 5050	7.5 8.4			241 281	22 1.10	12 0.90	16 1.16	-- 2.36	118 2.36	-- 0.11	-- --	-- --	-- --	105 0	0.7 1.1		
07/12/85 1530	5050 5050	68 20	F C	7.1 8.2	266 272	26 1.30	13 0.96	22 2.0	-- 1.84	92 1.84	-- 0.50	-- --	-- --	-- --	119 27	0.9 1.4		
07/12/85 1500	5050 5050	7.1 8.3			455 479	49 2.45	26 2.14	30 1.31	-- 3.12	156 3.12	-- 0.59	-- --	-- --	-- --	229 74	0.9 1.8		
07/12/85 1130	5050 5050	68 20	F C	7.3 8.2	281 292	28 1.40	14 1.44	18 0.78	-- 2.16	108 2.16	-- 0.59	-- --	-- --	-- --	144 38	0.7 1.1		
07/12/85 0915	5050 5050	68 20	F C	7.3 8.4	339 365	43 2.15	22 1.81	26 0.87	-- 2.92	146 2.92	-- 0.34	-- --	-- --	-- --	198 52	0.6 1.2		
R-03.C LOWER CALAVEPAS HA																		
08/14/85 1330	5701 5701	66 18	F C	7.6 7.6	60 630	24 2.99	25 1.97	6.3 0.16	212 4.24	17 0.35	52 1.47	26.0 0.42	-- 80.0	0.1 --	307	0.7 1.9		
09/04/85 1530	5701 5701	6.1 6.25			12 60	6.0 0.49	102 4.44	1.1 0.03	101 2.02	2.0 0.04	129 3.64	1.0 0.02	-- 51.0	0.1 --	365	0.9 0.7		
09/21/85 1600	5701 5701	63 17	F C	7.5 7.5	719 719	29 1.44	12 0.90	1.5 0.04	103 2.06	2.0 0.04	160 4.51	1.0 0.02	-- 54.0	0.1 --	424	1.0 0.6		
09/07/85 1533	5701 5701	6.1 6.1			945 945	18 0.16	9.0 12	9.0 7.1	1.0 1.1	121 4.4	2.0 0.1	166 2.99	3.0 0.05	-- 51.0	352	0.9 0.6		
07/15/85 0728	5701 5701	70 21	F C	7.7 7.7	1240 1240	38 2.89	31 2.55	123 5.35	4.1 0.10	116 2.32	1.0 0.02	294 0.40	1.0 0.02	-- 56.0	270 642	1.3 6.3		
08/14/85 1154	5701 5701	68 20	F C	7.8 7.8	600 600	10 0.10	8.0 0.66	102 4.44	1.7 0.04	151 3.02	1.0 0.02	92 2.59	1.0 0.02	-- 64.0	370	0.9 0.3		
07/24/85 0926	5701 5701	64 18	F C	7.7 7.7	530 530	38 1.36	17 1.40	43 3.67	2.6 0.03	138 2.76	7.0 0.15	84 2.37	2.0 0.03	-- 47.0	323	1.5 2.7		
08/14/85 1120	5701 5701	68 20	F C	7.9 7.9	300 300	15 0.75	8.0 0.66	46 2.66	2.0 0.05	141 2.82	5.0 0.10	1.0 0.15	1.0 0.02	-- 54.0	234	2.4 3.6		

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLED LAB	TEMP	FIELD		MINERAL CONSTITUENTS IN	MILLIGRAMS PER LITER					MILLIGRAMS PER LITER					SAR	REH
			PH	EC		PERCENT REACTANCE VALUE					PERCENT REACTANCE VALUE						
					CA	MG	NA	K	CaCO3	SO4	CL	NO3	THUR	SIN2	TDS SUM	TH NCH	ASAR

	R				SAN JOAQUIN NR												
	R-03				NORTH VALLEY FLOOR HU												
	R-03,0				DUICK-LITTLEJOHNS HA												

	01S/NRE-14001 M				*****												
07/10/85	5050	17 F	7.4	510	50	24	27	--	230	--	13	--	--	--	224	0.8	
1330	5050	19 C	8.3	530	2,50	1.97	1.17		4.60		.37			--	0	1.7	
					44	35	21										S
	R-04				MIDDLE SIERRA HUI												
	R-04,0				SIUTTER CREEK HA												

	07N/12E-14001 M				*****												
02/05/85	774R				35	6.2	6.0	--	08	1.5	6.0	--	--	--	132	115	0.2
5886	5886	7.2	220	1,75	.51	.26	1.0		1.96	.03	.17				113	15	0.4
					69	20	1.0										

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLED LAB		TEMP	FIELD		MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				SAR	ASAR	REM
				LABORATORY PH	EC	CA	MG	NA	K	PERCENT REACTANCE VALUE		PERCENT REACTANCE VALUE		TDS SI ² MG/L	TH MG/L					
										CaCO ₃	SO ₄	CL	NO ₃							
G-08 G-08-A			NORTH LAMONTAN HB SUGARVILLE MH MERLONG MA																	
06/12/85 0850	5050	21H/18E-10J01	67.0F 19.4C	7.4	308 304	26 1.30	15 1.23	--	--	--	--	5.0 .14	--	--	--	--	127			
06/12/85 0930	5050	22H/17E-04K01	60.0F 15.5C	7.3	350	--	--	--	--	--	--	--	--	--	--	--			5	
06/12/85 0930	5050	22H/17E-26J01	57.0F 13.9C	7.5	520 502	44 2.20	22 1.81	23 1.00	9.1 .23	188 3.76	24 10	25 14	14.0 .23	.0	--	33H 274	201 13	0.7 1.5		
06/12/85 1010	5050	23H/17E-02M01	69.0F 20.5C	7.1	700	--	--	--	--	--	--	--	--	--	--	--			5	
07/09/85 1020	5050	25H/17E-04M01	66.5F 19.1C	7.3	327 318	30 1.50	9.0 .74	--	--	--	--	10 .2H	--	.0	.1	--	112		5	
07/09/85 0950	5050	25H/17E-08M03	57.0F 13.9C	6.8	320 313	32 1.60	9.0 .74	--	--	--	--	4.0 .11	--	.0	.1	--	117		5	
06/13/85 1030	5050	25H/17E-20R01	61.0F 16.1C	7.3	470 441	42 2.10	14 1.15	32 1.39	1.4 .04	192 3.84	12 .25	8.0 .23	14.0 .23	.0	.2	290 239	163 0	1.1 2.2		
06/13/85 1100	5050	25H/17E-21M01	61.0F 16.1C	7.0	398 192	18 .90	5.0 .41	15 .65	1.1 .03	79 1.58	8.0 .17	4.0 .11	8.4 .11	.0	.2	136 105	84 0	0.8 1.0	5	
06/12/85 1050	5050	25H/17E-29M01	58.0F 14.4C	7.0	215 210	24 1.20	4.0 .33	12 .52	1.4 .04	84 1.68	--	4.0 .11	--	.0	.1	--	76 0	0.6 0.8	5	
07/08/85 1600	5050	26H/15E-02M01	65.0F 18.3C	7.6	235 224	22 1.10	6.0 .49	--	--	--	--	3.0 .0H	--	.0	.1	--	80		5	
06/12/85 1230	5050	26H/16E-02E01	66.0F 18.9C	7.6	498 445	29 1.45	9.0 .74	53 2.31	5.0 .13	180 3.60	--	14 .39	--	.2	.3	--	110 0	2.2 3.9	5	
06/12/85 1300	5050	26H/16E-03M02	71.0F 21.4C	8.2	515 516	10 .50	2.0 .16	95 4.13	16 .41	144 2.68	--	19 .54	--	.2	.4	--	33 0	7.2 4.4		
06/12/85 1310	5050	26H/16E-04M01	60.0F 15.5C	7.1	450 442	29 1.45	12 .99	47 2.04	4.2 .11	124 2.4H	--	14 .39	--	.2	.3	--	122 0	1.9 3.1	5	
06/12/85 1435	5050	26H/16E-15E03	60.0F 15.5C	7.0	700 66H	54 2.69	13 1.07	62 3.57	4.3 .11	193 3.86	122 2.54	20 .56	8.8 .14	.4	1.0	444 420	188 0	2.8 9.3	5	
06/12/85 1600	5050	26H/16E-16M01	60.0F 15.5C	7.0	410 400	41 2.05	12 .99	33 1.44	3.0 .08	147 2.94	36 .75	11 .31	14.0 .23	.1	.1	267 23H	192 5	1.2 2.2	5	
06/12/85 1400	5050	26H/17E-18R01	64.0F 17.8C	7.3	745 724	32 1.40	4.0 .33	129 5.61	2.5 .06	192 3.84	45 13	29 11	96.0 .27	.4	1.2	49H 453	96 0	4.7 9.9	5	
06/12/85 1410	5050	26H/17E-19E01	67.0F 19.4C	7.4	950 912	50 2.90	38 3.13	76 3.31	6.1 .16	153 3.08	250 5.39	10 .28	1.6 .03	.2	1.0	680 593	282 129	2.0 4.1	5	
07/09/85 1115	5050	27H/14F-22401	65.0F 18.3C	7.3	325 326	8.0 .40	2.0 .16	--	--	--	--	4.0 .11	--	.1	.4	--	2H		5	
07/10/85 1345	5050	27H/14F-24E01	60.0F 15.5C	7.0	310 303	24 1.30	4.0 .49	34 1.48	2.0 .05	140 2.80	14 .29	4.0 .11	1.2 .02	.0	--	202 171	90 0	1.6 2.5		
06/11/85 1450	5050	27H/14E-26E01	64.0F 17.8C	6.8	175	--	--	--	--	--	--	--	--	--	--	--				

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER L&R	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				S&P ANALYST	REP		
					CA	MG	NA	K	CaCO3	SO4	CL	NO3	CaCO3	SO4	CL	NO3				
NORTH LAMONTAN HB SUSANVILLE MHI HEPLONG NA																				
07/09/85 1054	G-OR G-OR.4	5056 0000	27N/14E-24E02	M	7.0	90	--	--	--	--	--	--	--	--	--	--	--	S		
06/11/85 1500	5050 6000	5050 17.8C	27N/14F-24F05	M	14.0F 17.8C	115	--	--	--	--	--	--	--	--	--	--	--	S		
07/10/85 1320	5050 5050	5050	27N/15E-24F01	M	69.0F 20.5C	7.9 7.5	230 224	20 1.00	4.0 .33	24 1.04	1.4 2	93 81	18 37	2.0 .06	.2 .00	.0 3	149 124	66 0	1.3 1.7	
06/12/85 1240	5050 5050	5050	27N/16E-35F01	M	63.0F 17.2C	7.3 7.1	675 662	45 2.25	14 1.44	6.0 2.91	9.9 .29	160 3.20	134 2.79	27 .76	4.9 .04	.3 1	443 403	184 27	2.2 4.2	
06/12/85 1220	5050 4090	5050	27N/16E-36004	M	63.0F 17.2C	7.1 7.4	1140 1130	120 5.99	37 3.04	9.5 4.13	3.5 .09	168 3.36	356 7.41	49 1.38	25.0 .40	.3 3	844 787	452 284	1.9 4.4	
06/11/85 0940	5050 5050	5050	28N/17F-18K01	M	60.0F 15.5C	6.7 6.1	330 318	6.0 3.0	1.0 2	6.4 2.71	2.9 .07	106 2.12	74 54	14 3.9	2.2 .04	.1 1	209 160	19 0	6.4 5.3	
07/10/84 1100	5050 5050	5050	28N/17E-25F01	M	62.0F 27.8C	6.4 7.6	275 262	5.0 2.5	1.0 3	5.1 2.22	-- 87	94 1.92	-- 17	10 2.8	-- 1	.2 --	-- --	16 0	5.5 4.0	
G-OR.4 SUSAN RIVER NA																				
07/09/85 1135	5050 5050	5050	27N/14E-06F01	M	54.5F 12.5C	7.0	210 217	21 1.05	8.0 .66	--	--	--	-- 1.0	-- .03	-- --	.0 --	.1 --	86	S	
07/09/85 1235	5050 5050	5050	28N/13E-C2F01	M	64.0F 17.8C	7.3	595 571	40 2.00	22 1.81	--	--	--	-- 33	-- .03	-- --	.0 --	.2 --	191	S	
07/11/85 0910	5050 0000	5050	28N/13E-05401	M	6.8	205	--	--	--	--	--	--	--	--	--	--	--	--	S	
06/11/85 1420	5050 5050	5050	28N/13E-09E01	M	69.0F 20.5C	6.8	205 203	21 1.05	7.0 .58	9.6 .44	1.5 .04	-- 2	-- 3.0	-- .06	-- --	.0 --	.2 --	82 0.0	S	
07/09/85 1215	5050 5050	5050	28N/13E-10N01	M	65.0F 19.3C	6.9	257 254	24 1.20	12 .99	--	--	--	-- 6.0	-- .17	-- --	.0 --	.1 --	110	S	
07/09/85 1705	5050 4050	5050	28N/13E-14403	M	61.0F 16.1C	7.4	220 213	19 .95	6.0 .49	--	--	--	-- 2.0	-- .06	-- --	.0 --	.1 --	72	S	
06/11/85 1405	5050 5050	5050	28N/13E-25L01	M	64.0F 17.8C	7.1	160 159	16 .80	3.0 .25	1.0 .44	1.6 .05	-- 3	-- 3.0	-- .08	-- --	.0 --	.2 --	52 0.0	S	
07/09/85 1510	5050 5050	5050	28N/14E-G2002	M	61.0F 16.1C	7.5 8.0	1900 1790	56 2.50	36 2.96	217 9.44	-- 63	240 4.80	-- 11.25	399 7.06	.0 .00	.2 --	-- --	273 33	7.7 12.6	
09/24/85 0920	5050 5050	5050	28N/14E-03C02	M	62.5F 16.9C	7.8 8.6	790 775	19 .95	12 .99	136 5.92	4.9 .13	223 4.46	64 1.33	73 7.06	1.2 .02	.6 --	-- --	470 444	97 0	6.0 10.8
06/11/85 1350	5050 5050	5050	28N/14E-G6H01	M	71.0F 22.8C	7.8 8.2	430 425	4.0 .20	3.0 .25	6.8 3.82	6.3 .16	-- 4	-- 10	-- .28	-- --	.3 --	.5 --	22 0.0	S	
07/10/85 1235	5050 5050	5050	28N/14E-G7401	M	61.0F 16.1C	7.3	290 262	8.0 .40	9.0 .25	--	--	--	-- 6.0	4.4 .17	.2 .67	-- --	-- --	32	S	
07/10/85 1230	5050 5050	5050	28N/14E-07J01	M	60.0F 15.5C	7.3	340 334	38 1.90	9.0 .74	--	--	--	-- 3.0	-- .08	-- --	.1 --	.2 --	132	S	
09/24/85 0900	5050 0030	5050	28N/14E-UR401	M	60.0F 15.5C	8.0	420	--	--	--	--	--	--	--	--	--	--	--	S	

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER L&R	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				TDS MG/L	TH MG/L	S&P MG/L	REMARKS	
					Ca	Mg	Na	K	PERCENT CAPS	PERCENT SOD	PERCENT CL	PERCENT NO3	TJH	STO2	NO2	NO3					
G G-DB G-DB-R																					
NORTH LAMONTAN NR SUSANVILLE NR SUSAN RIVER NA																					
07/09/85 1330	5050	28N/14E-08J01	M	71.0F 21.6C	7.9 364	375 1.35	7.0 .16	2.0 --	--	--	--	18 .41	--	.3 --	.2 --	--	26	--	--	S	
06/11/85 1305	5050	28N/14E-17R02	M	60.0F 15.5C	7.8 8.0	318 308	2.8 1.40	5.0 41	.41 12	3.6 4.2	.3 0	126 2.52	21 14	7.0 2.0	2.3 .04	.0 1	201 175	90 0	1.7 2.6	S	
06/11/85 1430	5050	28N/14E-31M04	M	60.0F 20.5C	6.8	185	--	--	--	--	--	--	--	--	--	--	--	--	--	S	
06/11/85 0915	5050	28N/16E-08R01	M	183.2F 84.0C	8.9 8.0	1250 1260	18 .90	.0 7	25.8 11.22	6.2 .16	.39 1	39 .78	291 6.06	1.4 54	.0 39	.0 0	4.0 7.5	7.6 854	4.5 6	15.7 11.0	S
06/10/85 1435	5050	29N/12E-02P06	M	58.0F 14.4C	7.6 4.4	450 1.00	2.0 23	9.0 .74	5.5 2.57	4.9 .13	--	--	27 7.6	--	.6 --	.9 --	--	87	0.0	S	
06/10/85 1350	5050	29N/12E-05E02	M	74.0F 23.3C	7.6 8.0	295 280	2.0 1.45	1.0 .82	1.3 .97	4.3 .11	107 2.14	1.0 .40	4.0 .11	1.0 .02	.0 1	.2 --	196 144	114 7	0.5 0.9	T S	
07/08/85 1345	5050	29N/12E-12C03	M	--	--	900 907	6.3 3.14	3.3 2.71	8.1 3.52	9.2 .24	183 3.66	242 5.04	17 5.04	22.0 4.34	.4 .35	--	639 577	293 110	2.1 4.5	F	
07/08/85 1435	5050	29N/12E-13M06	M	64.0F 17.8C	7.1	210 295	11 .55	5.0 .41	--	--	--	--	3.0 .08	--	.1 --	.2 --	--	4.8	--	S	
07/08/85 1355	5050	29N/12E-14A01	M	59.0F 15.0C	6.7	200 195	1.6 .86	6.0 .49	--	--	--	--	2.0 .06	--	.0 --	.1 --	--	6.4	--	S	
06/10/85 1425	5050	29N/12E-15A04	M	56.0F 13.3C	7.0 8.0	230 217	2.0 1.00	7.0 .58	1.3 .57	1.1 .03	83 1.66	6.0 .12	3.0 .68	19.0 .31	.0 1	.2 --	154 119	79 0	0.6 0.9	E T	
06/10/85 1405	5050	29N/12E-16M02	M	66.0F 18.9C	8.2 8.0	192 188	1.0 .50	1.0 .08	3.0 1.31	1.0 .03	83 1.66	1.4 .29	1.0 .63	.0 .00	.0 2	.3 0	116 107	29 0	2.4 2.3	S	
07/08/85 1415	5050	29N/12E-21E02	M	7.3 8.2	292 285	2.6 1.30	8.0 .66	1.4 .83	--	--	84 1.68	--	1.0 .03	--	.0 --	--	--	98 14	0.8 1.2	S	
06/10/85 1530	5050	29N/13E-01N01	M	60.0F 15.9C	7.7 8.2	840 815	8.0 .40	2.0 .16	17.6 7.74	6.2 .16	177 3.54	120 2.50	34 .96	64.0 1.03	.9 13	.6 --	572 510	28 0	14.6 16.8	E S	
06/10/85 1500	5050	29N/13E-04N01	M	7.8	230	--	--	--	--	--	--	--	--	--	--	.4 --	--	--	--	S	
07/11/85 0945	5050	29N/13E-05M01	M	64.0F 17.8C	7.6 246	243 .70	1.4 .86	--	--	--	--	--	3.0 .08	--	.1 --	.2 --	--	6.8	--	S	
07/11/85 1030	5050	29N/13E-12P01	M	62.0F 16.7C	7.8 4.21	425 421	2.1 1.05	8.0 .68	--	--	--	--	14 .39	--	.1 --	.2 --	--	2.6	--	S	
06/11/85 1130	5050	29N/13E-17C05	M	58.0F 14.4C	7.1	490	--	--	--	--	--	--	--	--	.1 --	.6 --	--	--	--	S	
07/10/85 0825	5050	29N/13E-21M02	M	62.0F 16.7C	7.6 6.5	240 224	1.4 .70	6.0 .49	2.5 1.64	3.5 .09	107 2.14	4.0 .68	3.0 .68	4.4 .07	.0 3	--	182 124	60 0	1.4 1.9	E T	
06/11/85 1110	5050	29N/13E-24N02	M	60.0F 15.9C	7.3	500	--	--	--	--	--	--	--	--	.0 --	.2 --	--	--	--	S	
06/10/85 1600	5050	29N/14E-04N01	M	61.0F 16.1C	7.7	1060	--	--	--	--	--	1.4 3.93	--	--	.5 --	.1 --	--	--	--	S	

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAR	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN								MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TMS F TMS TM CAR REM								
				CA	MG	NA	K	CO3	SO4	CL	NO3	R	F	TMS	TM	CAR	REM							
C C-DR C-DR.B			NORTH LAMONTAN HR SUNNYSVILLE - H4 SUNNYSVILLE - H4																					
07/10/85 0933	5050 5050	29N/14F-06L03 P	57.0F 13.9C	7.9 91.6	520 91.6	18 .80	7.0 .58	--	--	--	--	10 .28	--	.5 --	.4 --	--	69							
07/11/85 1010	5050 5050	29N/14F-10F01 M	72.0F 22.2C	7.3 44.9	440 44.9	24 1.20	13 1.07	--	--	--	--	7.0 .20	--	.1 --	.2 --	--	114							
06/10/85 1525	5050 5050	29N/14F-17C01 M	66.0F 18.9C	7.6 8.4	775 1070	12 .60	6.0 .49	234 10.16	5.9 .15	300 9.99	144 3.00	69 1.95	5.3 .09	1.4 1.4	1.4 --	704 657	54 0	13.9 22.6						
06/11/85 1100	5050 5050	29N/14E-18P01 M	74.0F 21.9C	8.0 8.6	1020 1030	4.0 .20	1.0 .08	235 11.04	6.0 .20	414 8.27	88 1.79	12 .34	30.0 .49	.9 3	5.2 4	689 645	14 0	29.7 15.1						
06/11/85 1050	5050 5050	29N/14E-19402 M	57.0F 13.9C	7.6 91.6	1100	--	--	--	--	--	160 3.52	--	64.0 1.03	--	2.8 --	--								
06/11/85 1045	5050 5050	29N/14E-20A03 M	61.0F 16.1C	7.7 8.6	1260 1200	37 1.85	19 1.56	234 10.16	17 .43	470 9.39	126 2.62	66 1.86	23.0 .37	1.6 --	1.4 --	791 605	171 0	7.8 16.0						
07/09/85 1500	5050 5050	29N/14E-20A04 M	59.0F 15.0C	7.3 91.6	2150 2040	78 3.89	41 3.37	--	--	--	--	164 4.62	--	1.7 --	.5 --	--	363							
06/10/85 1615	5050 5050	29N/14F-20904 M	60.0F 15.5C	7.8 8.6	1450 1400	16 .80	7.0 .58	314 13.66	6.5 .17	478 9.55	227 4.73	33 .93	12.0 .19	2.0 --	1.7 --	815 904	89 0	16.5 31.4						
07/10/85 1140	5050 5050	29N/15E-08R02 M	75.0F 23.9C	7.8 80.9	630 609	30 1.50	14 1.15	--	--	--	--	25 .71	--	.2 --	.2 --	--	133							
07/10/85 1013	5050 5050	29N/15E-23K01 M	167.0F 75.0C	8.5 1480	1430 1480	20 1.00	.0 .00	--	--	--	--	185 5.22	--	5.4 --	4.1 --	--	90							
06/11/85 1020	5050 5050	29N/15E-30A03 M	56.0F 13.1C	8.0 8.5	600 587	10 .50	4.0 .31	133 5.79	4.2 .11	278 5.41	26 .54	7.0 .20	1.1 .02	.4 --	.4 --	382 381	42 0	8.9 13.7						
09/29/85 C045	5050 5050	29N/15E-30001 M	56.0F 13.3C	8.0 8.7	550 553	11 .55	5.0 .41	116 5.05	4.2 .11	258 5.15	28 .58	8.0 .23	1.5 .03	.4 --	--	363 329	48 0	7.3 11.4						
09/29/85 1018	5050 5050	29N/15E-32C01 M	53.0F 11.7C	8.1 8.6	750 728	11 .55	7.0 .58	158 6.87	4.2 .11	336 6.71	19 .40	25 .71	5.8 .09	.5 1	--	452 432	56 0	9.2 15.9						
06/11/85 U850	5050 5050	29N/16E-30L01 M	72.0F 22.2C	8.2 8.2	310 307	7.0 .35	2.0 .18	53 2.31	8.3 .21	91 1.82	28 .58	17 .48	4.0 .06	.2 --	.1 --	213 174	26 0	4.5 4.1						
07/08/85 1231	5050 5050	30N/12E-30A01 M	68.0F 20.0C	7.3 6.0	185 179	16 .80	8.0 .66	16 .44	--	89 1.78	--	1.0 .03	--	--	--	--	73 0	0.5 0.7						
07/08/85 1240	5050 5050	30N/12F-30A02 M	66.0F 18.9C	6.8 23.8	245 238	25 1.25	10 .82	--	--	--	--	4.0 .11	--	.0 --	.0 --	--	104							
06/10/85 1545	5050 5050	30N/14F-19L01 M	60 F 16 C	7.1	1000	--	--	--	--	--	--	--	--	--	--	--								
07/10/85 C005	5050 5050	30N/14F-19P01 M	61.0F 18.1C	7.5 58.3	600 583	32 1.60	23 1.89	--	--	--	--	21 .59	8.0 .13	.6 --	--	--	175							
07/10/85 C000	5050 5050	30N/14F-19F01 M	62.0F 16.7C	7.9 7.2	545 524	24 1.20	8.0 .66	74 3.31	9.7 .25	163 3.26	75 1.56	12 .94	4.0 .06	.4 --	--	372 307	93 0	3.4 5.7						
C-DR.C C-DR.C1			EAGLE MOUNTAIN H4 ANTELOPE MOUNTAIN H54																					
07/31/85 1340	5050 5050	31N/16E-03MC1 M	60.0F 16.0C	7.0 8.3	142 138	12 .60	8.0 .46	6.6 .24	--	70 1.40	--	2.0 .16	1.1 .02	--	--	--	63 0	0.3 0.4						

TABLE E-1 (CONTINUED)

MINERAL ANALYSES OF GROUND WATER																						
DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PW EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER PERCENT PEACTANCE VALUE				MILLIGRAMS PER LITER				R	F	TDS S1M	TH NCH	SAR ACAR	REP	
				CA	MG	NA	K	CAC03	SD4	CL	NO3	TU0R	SIO2	S1M	NCH							ACAR
NORTH LAMONTAIN MS SUSANVILLE MU EARLE DRAINAGE HA ANTELOPE MOUNTAIN HSA																						
07/31/85 1410	5050 5050	57.0F 13.9C	7.9 8.5	182 182	22 1.10	7.0 .58	5.4 .22	-- 1.88	94 12	--	--	1.0 .03	.4 .01	-- --	-- --	--	--	86 0	0.2 0.3			
07/31/85 1400	5050 5050	49.5F 9.7C	7.3 8.4	184 183	12 1.10	10 .58	5.4 .22	1.4 1.88	84 12	--	--	1.0 .03	.3 .00	-- --	-- --	--	--	71 0	0.3 0.3		5	
07/31/85 1445	5050 5050	57.5F 14.2C	8.1 8.6	266 265	29 1.45	12 .99	11 .48	-- 2.80	140 16	--	--	1.0 .03	.8 .01	-- --	-- --	--	--	122 0	0.4 0.4		5	
07/31/85 1305	5050 5050	53.5F 11.9C	6.9 8.4	191 189	14 .70	10 .82	10 .44	2.8 .07	100 2.00	3.0 .06	1.0 .03	.8 .01	.0 0	+0 --	-- --	--	--	133 101	0.5 0.7		E T	
07/31/85 1140	5050 5050	64.0F 17.8C	7.5 8.3	171 167	11 .55	4.0 .39	18 .78	3.7 .09	81 1.82	--	--	1.0 .03	1.6 .03	-- --	-- --	--	--	44 0	1.2 1.3		5	
G-08.D SNOW STORM MOUNTAIN HA																						
06/11/85 1630	5050 0000	56.0F 13.3C	7.6	380	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		5	
G-10 MADELINE PLAINS MU																						
08/08/85 1445	5050 0000	56.0F 14.4C	7.8	160	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		5	
08/08/85 1505	5050 0000	65.0F 16.3C	7.7	290	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		5	
08/08/85 1515	5050 0000	56.0F 14.4C	7.2	150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		5	
08/08/85 1430	5050 0000	56.0F 13.3C	7.2	980	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		5	
08/08/85 1350	5050 0000	56.0F 14.4C	7.6	420	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		5	
08/08/85 1405	5050 0000	55.0F 12.8C	7.4	2800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		5	
G-12 SURPRISE VALLEY MU BARE CREEK HA																						
08/07/85 1125	5050 0000	54.0F 12.2C	7.3	330	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		5	
G-12.B CENAPVILLE HA																						
08/07/85 1045	5050 0000	54.0F 12.2C	7.9	210	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		5	
08/07/85 1100	5050 0000	56.0F 13.3C	7.9	250	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		5	
08/07/85 1110	5050 0000	55.0F 12.8C	7.3	240	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		5	
08/07/85 0845	5050 0000	59.0F 15.0C	7.8	235	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		5	
08/07/85 1000	5050 0000	58.0F 14.4C	7.8	270	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		5	

MINERAL ANALYSES OF GROUND WATER

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TABLE E-2
MINOR ELEMENT ANALYSES OF GROUND WATER

Lab and Sampler Agency Code

5050 - California Department of Water Resources, Bryte Laboratory
 5060 - California Department of Health, Berkeley Laboratory
 5684 - Sierra Environmental Monitoring Laboratory
 5701 - California Water Service Company Laboratory
 5867 - Fruit Growers Laboratory
 7748 - California Department of Forestry
 8200 - Colusa County

Abbreviations

TIME	- Pacific Standard Time on a 24-hour clock
EC	- Electrical conductance in microsiemens at 25° C
TEMP	- Water temperature at time of sampling in degrees Fahrenheit (F) or Celsius (C)
pH	- Measure of acidity or alkalinity of water
CHROM (ALL)	- All chromium
CHROM (HEX)	- Hexavalent chromium
D	- Dissolved
T	- Total
REM	- Remarks; code letter are:
	P - Laboratory pH was substituted for field pH, which was not available.
	E - Total dissolved solids (TDS) value is not within the range of 0.35 to 0.70 of the electrical conductivity.

TABLE E-2
MINOR ELEMENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAR	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS RADIUM CAIOMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY TELURIUM	SILVER IIMC	RE
A-02 A-02.A 07N/01E-14J01 M SACRAMENTO HA VALLEY PUTAH-CACHE MII ELMIRA HA												
06/19/85	5701			18 C	--	--	--	0.0	T	--	--	P
1457	5701		945	7.6	--	--	--	0.0	T	--	0.0	E
07N/01E-14N03 M												
06/19/85	5701			18 C	--	--	--	0.0	T	--	--	P
0945	5701		690	7.7	--	--	--	0.0	T	--	0.0	E
07N/01E-23N02 M												
06/19/85	5701			21 C	--	--	--	0.0	T	--	--	P
1405	5701		575	7.6	--	--	--	0.0	T	--	0.0	E
A-04 A-04.0 A-04.04 11N/08W-05B01 M CACHE CREEK MII UPPER CACHE CREEK HA LAKEPORT NSA												
10/03/84	5050			16.0C	--	--	--	0.00	T	0.00	T	--
1800	5050		381	7.3	--	0.00	T	0.20	T	0.15	T	0.00
12/04/84	5050			15.0C	--	--	--	0.06	T	0.00	T	--
1230	5050		390	7.2	--	0.00	T	0.16	T	0.10	T	0.01
02/04/85	5050			15.5C	--	--	--	0.00	T	0.00	T	--
1430	5050		395	7.3	--	0.00	T	0.08	T	0.10	T	0.01
04/03/85	5050			15.5C	--	--	--	0.00	T	0.00	T	--
1040	5050	0	375	7.2	--	0.00	T	0.10	T	0.10	T	0.01
06/04/85	5050			16.0C	--	--	--	0.00	T	0.01	T	--
1430	5050	0	395	7.2	--	0.00	T	0.06	T	0.10	T	0.01
08/07/85	5050			16.0C	--	--	--	0.00	T	0.00	T	--
1130	5050	0	395	7.1	--	0.00	T	0.26	T	0.13	T	0.01
11N/08W-05C01 M												
10/03/84	5050			19.5C	--	--	--	0.00	T	0.00	T	--
1540	5050		341	7.4	--	0.00	T	0.26	T	0.05	T	0.02
12/04/84	5050			17.0C	--	--	--	0.01	T	0.00	T	--
1300	5050		340	7.3	--	0.00	T	0.22	T	0.05	T	0.05
02/05/85	5050			6.0C	--	--	--	0.00	T	0.00	T	--
1330	5050		357	7.2	--	0.00	T	0.05	T	0.06	T	0.01
04/03/85	5050			16.5C	--	--	--	0.04	T	0.01	T	--
0915	5050	0	355	7.4	--	0.00	T	0.18	T	0.05	T	0.02
06/04/85	5050			19.5C	--	--	--	0.00	T	0.00	T	--
1345	5050	0	345	7.2	--	0.00	T	0.06	T	0.04	T	0.01
08/07/85	5050			26.0C	--	--	--	0.00	T	0.00	T	--
1030	5050	0	340	7.2	--	0.00	T	0.48	T	0.02	T	0.10
11N/08W-05C01 M												
10/03/84	5050			16.0C	--	--	--	0.01	T	0.00	T	--
1450	5050		187	6.6	--	0.00	T	0.54	T	0.02	T	0.03
12/04/84	5050			11.0C	--	--	--	0.01	T	0.00	T	--
1340	5050		85	6.8	--	0.00	T	1.7	T	0.01	T	0.02
02/05/85	5050			4.0C	--	--	--	0.00	T	0.00	T	--
1400	5050		98	6.3	--	0.00	T	1.0	T	0.01	T	0.02
04/03/85	5050			10.5C	--	--	--	0.00	T	0.00	T	--
0900	5050	0	104	6.2	--	0.00	T	1.4	T	0.01	T	0.03
06/04/85	5050			15.5C	--	--	--	0.00	T	0.00	T	--
1400	5050	0	137	6.3	--	0.00	T	0.43	T	0.01	T	0.04
08/07/85	5050			20.5C	--	--	--	0.00	T	0.00	T	--
1110	5050	0	165	6.6	--	0.00	T	0.59	T	0.01	T	0.05
11N/08W-05C01 M												
10/03/84	5050			14.0C	--	--	--	0.00	T	0.00	T	--
1430	5050		232	6.8	--	0.00	T	0.84	T	0.02	T	0.25
12/04/84	5050			5.5C	--	--	--	0.03	T	0.00	T	--
1355	5050		70	6.0	--	0.00	T	13.	T	0.47	T	0.33
02/05/85	5050			4.0C	--	--	--	0.02	T	0.01	T	--
1415	5050		185	6.4	--	0.00	T	7.6	T	0.05	T	1.4
04/03/85	5050			9.5C	--	--	--	0.01	T	0.00	T	--
0845	5050	0	81	6.0	--	0.00	T	5.0	T	0.09	T	0.06
06/04/85	5050			12.5C	--	--	--	0.00	T	0.01	T	--
1415	5050	0	275	6.7	--	0.00	T	0.55	T	0.19	T	0.35
11N/04W-06N01 M												
10/03/84	5050			14.0C	--	--	--	0.00	T	0.00	T	--
1515	5050		297	7.2	--	0.00	T	0.30	T	0.00	T	0.00
12/04/84	5050			13.5C	--	--	--	0.00	T	0.00	T	--
1315	5050		290	7.3	--	0.00	T	0.30	T	0.00	T	0.00
02/04/85	5050			13.5C	--	--	--	0.00	T	0.00	T	--
1315	5050		295	7.2	--	0.00	T	0.04	T	0.00	T	0.00
04/03/85	5050			13.5C	--	--	--	0.00	T	0.00	T	--
0945	5050	0	277	7.5	--	0.00	T	0.08	T	0.00	T	0.00

TABLE E-2 (CONTINUED)
MINOR ELEMENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP P-4	ARSENIC	CONSTITUENTS BARIUM CAIOMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	SELENIUM	SILVER 714C	REP
<p>A A-04 A-04.0 A-04.04 11N/08V-04N01 M</p> <p>SACRAMENTO HR CACHE CREEK HU UPPER CACHE CREEK HA LAKEPORT H54</p>												
CONTINUED												
06/04/85 1930	5050 5050	0	321	13.5C 7.0	--	0.00	0	0.00 0.04	T T	0.00 0.00	T T	0.00 0.00
06/07/85 1100	5050 5050	0	925	14.5C 7.0	--	0.00	T	0.00 0.14	T T	0.00 0.00	T T	0.01 0.01
<p>A-07 A-07.0 A-07.01 19N/03V-04J01 M</p> <p>COLUSA BASIN HU GLENN COLUSA HA COLUSA TROUGH H54</p>												
07/01/85 1935	5701 5701			20.0C	--	--	--	0. 0.	T T	-- T	-- T	0. 0.
19N/03V-09F01 M												
07/01/85 1045	5701 5701			20.0C	--	--	--	0. 0.	T T	-- T	-- T	0. 0.
19N/03V-09K01 M												
07/01/85 1320	5701 5701			19.0C	--	--	--	0. 0.	T T	-- T	-- T	0. 0.
<p>A-07.0 22N/01E-35E01 M</p> <p>BUTTE BASIN HA</p>												
08/12/85 1345	5701 5701			18.0C	--	--	--	0. 0.	T T	-- T	-- T	0. 0.
22N/01E-36C01 M												
08/12/85 1315	5701 5701			20.0C	--	--	--	0. 0.	T T	-- T	-- T	0. 0.
<p>A-08 A-08.C 19N/03E-12R02 M</p> <p>MARYSVILLE HU LOWER YUBA RIVER HA</p>												
08/26/85 1115	5701 5701		475	19 C 7.4	--	--	--	0.0 0.0	T T	-- T	-- T	0.0 0.0
19N/03E-13N01 M												
08/14/85 1430	5701 5701		655	18 C 7.0	--	--	--	0.0 0.21	T T	-- T	-- T	0.0 0.0
19N/04E-07J02 M												
08/14/85 1450	5701 5701		380	18 C 7.7	--	--	--	0.0 0.0	T T	-- T	-- T	0.0 0.0
19N/04E-07M02 M												
08/26/85 1130	5701 5701		395	19 C 7.4	--	--	--	0.0 0.0	T T	-- T	-- T	0.0 0.0
19N/04E-18C01 M												
08/14/85 1445	5701 5701		325	20 C 7.0	--	--	--	0.0 0.09	T T	-- T	-- T	0.0 0.0
<p>A-08.0 17N/04E-20P01 M</p> <p>LOWER FEATHER RIVER HA</p>												
08/24/85 1930	5050 5050		600	69 F 7.5	--	--	--	-- --	-- --	-- --	-- --	-- --
19N/04E-07P01 M												
08/24/85 1125	5701 5701			18.0C	--	--	--	0. 0.	T T	-- T	-- T	0.05 0.05
19N/04E-20C01 M												
08/24/85 1150	5701 5701			18.0C	--	--	--	0. 0.	T T	-- T	-- T	0. 0.
<p>A-13 A-13.8 22N/01E-04A03 M</p> <p>TEHAMA HU RED BLUFF HA</p>												
08/12/85 1930	5701 5701			22.0C	--	--	--	0. 0.	T T	-- T	-- T	0. 0.
22N/01E-10K01 M												
08/17/85 0800	5701 5701			20.0C	--	--	--	0. 0.	T T	-- T	-- T	0. 0.
22N/01E-19L01 M												
08/17/85 0815	5701 5701			18.0C	--	--	--	0. 0.	T T	-- T	-- T	0. 0.
22N/01E-16H01 M												
08/12/85 1304	5701 5701			19.0C	--	--	--	0. 0.	T T	-- T	-- T	0. 0.

TABLE E-2 (CONTINUED)
MINOR ELEMENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAR	DEPTH	OISCH EC	TEMP PH	ARSENIC	CONSTITUENTS IN MILLIGRAMS PER LITER BARIUM CADMIUM	CHROM (ALL) CHROM (HEX)	COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REM
A A-13 A-13.8 22N/01E-22W01 M SACRAMENTO HR TEHAMA HU RED BLUFF HA												
08/12/85 1250	5701 5701			18.0C	--	--	--	0. 0.	T T	-- 0.	-- T	0. T
27N/01E-23W03 M												
06/17/85 0950	5701 5701			22.0C	--	--	--	0. 0.	T T	-- 0.	-- T	0. T
22N/01E-23L01 M												
06/17/85 1015	5701 5701			19.0C	--	--	--	0. 0.	T T	-- 0.	-- T	0. T
22N/01E-23W01 M												
06/17/85 0917	5701 5701			19.0C	--	--	--	0. 0.	T T	-- 0.	-- T	0. T
22N/01E-23W01 M												
08/12/85 1600	5701 5701			18.0C	--	--	--	0. 0.	T T	-- 0.	-- T	0. T
27N/03W-20C01 M												
08/20/85 5060 5060					0.01 0 0.001 0	0.10 0 0.001 0	0.01 0 --	-- --	0.01 0 --	0.001 T 0.003 0	0.001 0 --	0
A-14 A-14.C A-14.C1 18N/06W-20C01 M STONY CREEK HU FOOTS SPRINGS HA MIDDLE FORK STONY HSA												
07/17/85 9867	8200 9867		400	7.1	0.0	0.00	0.0 --	0.0 0.0	0.0 0.0	0.00 --	0.0 0.1	

TABLE E-2 (CONTINUED)
MINOR ELEMENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAR	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS RARIUM CADMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REM
8-01 01N/06E-03C01 M SAN JOAQUIN HB SAN JOAQUIN DELTA HU												
08/16/85 1540	5701	5701	245	20 C 8.0	--	--	--	0.0 0.15	T T	-- 0.23	-- T	P E
01N/06E-04A01 M												
09/05/85 1500	5701	5701	320	18 C 8.0	--	--	--	0.0 0.11	T T	-- 0.10	-- T	P E
02N/06E-33A01 M												
07/24/85 1100	5701	5701	325	20 C 7.9	--	--	--	0.0 0.06	T T	-- 0.13	-- T	P E
02N/06E-33F01 M												
08/21/85 1330	5701	5701	335	18 C 7.9	--	--	--	0.0 0.0	T T	-- 0.09	-- T	P E
02N/06E-33G01 M												
07/24/85 1130	5701	5701	375	20 C 8.0	--	--	--	0.0 0.18	T T	-- 0.28	-- T	P E
02N/06E-33K01 M												
09/05/85 1100	5701	5701	270	18 C 7.9	--	--	--	0.0 2.80	T T	-- 0.17	-- T	P E
8-03 8-03.8 02N/06E-22E01 M NORTH VALLEY FLOOR HU LOWER MOKELUNNE HA												
07/24/85 1400	5701	5701	625	18 C 7.7	--	--	--	0.0 0.20	T T	-- 0.21	-- T	P E
02N/06E-22G01 M												
07/15/85 1040	5701	5701	350	18 C 7.8	--	--	--	0.0 0.0	T T	-- 0.0	-- T	P E
02N/06E-22001 M												
07/15/85 1125	5701	5701	440	18 C 7.7	--	--	--	0.0 0.0	T T	-- 0.0	-- T	P E
8-03.C 01N/06E-01J01 M LOWER CALAVERAS HA												
08/14/85 1330	5701	5701	630	19 C 7.6	--	--	--	0.0 0.0	T T	-- 0.0	-- T	P E
01N/06E-02M01 M												
09/04/85 1530	5701	5701	625	0.1	--	--	--	0.0 0.59	T T	-- 0.23	-- T	P E
01N/06E-02001 M												
08/21/85 1000	5701	5701	715	17 C 7.5	--	--	--	0.0 0.09	T T	-- 0.0	-- T	P E
01N/06E-11P05 M												
09/03/85 1530	5701	5701	595	8.1	--	--	--	0.0 0.13	T T	-- 0.25	-- T	P E
01N/06E-12C09 M												
07/15/85 0725	5701	5701	1240	21 C 7.7	--	--	--	0.0 0.49	T T	-- 0.90	-- T	P E
01N/06E-12F01 M												
08/14/85 1155	5701	5701	600	20 C 7.8	--	--	--	0.12 0.58	T T	-- 0.16	-- T	P E
01N/06E-12K03 M												
07/24/85 0920	5701	5701	530	18 C 7.7	--	--	--	0.0 0.09	T T	-- 0.15	-- T	P E
01N/07E-08F02 M												
08/14/85 1120	5701	5701	300	20 C 7.9	--	--	--	0.0 0.0	T T	-- 0.0	-- T	P E
01N/07E-08P01 M												
07/15/85 1040	5701	5701	255	20 C 7.8	--	--	--	0.0 0.0	T T	-- 0.0	-- T	P E
02N/06E-26L01 M												
07/15/85 1200	5701	5701	345	7.7	--	--	--	0.0 0.0	T T	-- 0.0	-- T	P E
02N/06E-27K01 M												
08/14/85 0930	5701	5701	440	15 C 7.8	--	--	--	0.0 0.0	T T	-- 0.0	-- T	P E

TABLE E-2 (CONTINUED)
MINOR ELEMENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAR	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS BARIUM CADMIUM	IN HILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REM
8 R-03 R-03.C 02N/06E-27P01 M												
08/21/85	5701											
1400	5701		325	7.8	--	--	--	0.0 0.0	T T	-- 0.08	-- T	P E
02N/04E-34801 M												
06/20/85	5701			20 C		--	--	0.0	T	--	--	P
1045	5701		820	7.7	--	--	--	0.05	T	0.0	T	E
08/07/85	5701			19 C		--	--	0.0	T	--	--	P
1530	5701		840	7.8	--	--	--	0.19	T	2.36	T	E
02N/06E-34001 M												
07/24/85	5701			15 C		--	--	0.0	T	--	--	P
1500	5701		990	7.6	--	--	--	0.35	T	0.81	T	E
02N/06E-36601 M												
08/14/85	5701			19 C		--	--	0.0	T	--	--	P
1315	5701		340	7.9	--	--	--	0.0	T	0.0	T	E
02N/06E-36R03 M												
08/21/85	5701			18 C		--	--	0.0	T	--	--	P
1305	5701		560	7.4	--	--	--	0.0	T	0.0	T	E
R-03.D 01N/06E-13J01 M												
07/24/85	5701			18 C		--	--	0.0	T	--	--	P
0945	5701		290	7.7	--	--	--	0.0	T	0.16	T	E
01N/07E-17001 M												
07/15/85	5701			19 C		--	--	0.0	T	--	--	P
1630	5701		295	7.8	--	--	--	0.0	T	0.06	T	E
01N/07E-18R01 M												
08/21/85	5701			20 C		--	--	0.0	T	--	--	P
1045	5701		245	7.9	--	--	--	0.0	T	0.0	T	E
01N/07E-18001 M												
08/21/85	5701			17 C		--	--	0.0	T	--	--	P
1515	5701		360	8.0	--	--	--	0.0	T	0.0	T	E
01N/07E-18L01 M												
08/21/85	5701			18 C		--	--	0.0	T	--	--	P
1110	5701		275	7.9	--	--	--	0.0	T	0.07	T	E
R-04 R-04.8 07N/12E-34001 M												
02/05/85	7748					--	--	0.2	T	--	--	P
5684	5684		220	7.2	--	--	--	0.25	T	0.0	T	E
07/02/85	7748					0.0	T	0.00	T	0.000	T	P
5684	5684				0.02	T	0.00	T	--	0.0	T	E

TABLE E-2 (CONTINUED)

MINOR ELEMENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	APSENIC	CONSTITUENTS BARIUM CADMIUM	IN MILLIGRAMS CHROM (ALL) CHROM (HEX)	PER LITER COPPER IRON	LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	REMARKS
			G G-09 G-09-A 25N/17E-29H01	M		NORTH LANONTAN WA SUSANVILLE HU NEPLONG WA						
06/12/85 1050	5050 5050		215	58.0F 7.0	0.00	T	---	---	---	---	---	
			26N/16E-0A001	M								
06/12/85 1310	5050 5050		450	60.0F 7.1	0.04	T	---	---	---	---	---	
			26N/17E-10B01	M								
06/12/85 1400	5050 5050		745	64.0F 7.3	0.03	T	---	---	---	---	---	
			27N/16E-36004	M								
06/12/85 1220	5050 5050		1180	63.0F 7.1	0.01	T	---	---	---	---	---	
			29N/16E-30L01	M								
06/11/85 0850	5050 5050		310	72.0F 8.2	0.00	T	---	---	---	---	---	
			G-08-B 28N/14E-17B02	M		SUSAN RIVER WA						
06/11/85 1305	5050 5050		318	60 F 7.8	0.00	T	---	---	---	---	---	
			29N/12E-16H02	M								
06/10/85 1405	5050 5050		192	66.0F 8.2	0.03	T	---	---	---	---	---	
			29N/14E-17001	M								
06/10/85	5050			66.0F			---	---	---	---	---	
06/10/85 1525	5050 5050		1070	66 F 7.6	0.19	T	---	---	---	---	---	
			29N/14E-20B04	M								
06/10/85 1615	5050 5050		1450	60.0F 7.8	0.28	T	---	---	---	---	---	
			G-08-C G-08-C1 31N/10E-03N01	M		EAGLE DRAINAGE WA ANTELOPE MOUNTAIN HSA						
07/31/85 1340	5050 5050		142	50.0F 7.0	---		---	0.25	T	---	---	
			31N/10E-14F01	M								
07/31/85 1400	5050 5050		164	49.5F 7.3	---		---	0.56	T	---	---	
			32N/11E-06001	M								
07/31/85 1305	5050 5050		191	55.5F 8.0	---		---	0.06	T	---	---	

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TABLE E-3

MISCELLANEOUS ANALYSES OF GROUND WATER

Lab and Sampler Agency Codes

5701 - California Water Service Company Laboratory

Abbreviations and Constituents

TIME	- Pacific Standard Time on a 24-hour clock
L-pH	- Lab determination of acidity or alkalinity of water
MBAS	- Methylene blue active substance (a test for detergent surfactants) in milligrams per liter
T+L	- Tannin and lignin as tannic acid in milligrams per liter
CHLOR	- Field determination of residual chlorine in milligrams per liter
O+G	- Oil and grease in milligrams per liter
COLOR	- True color in color units
SET S	- Settleable solids in milliliters per liter (ML/L) and milligrams per liter (MG/L)
BOD	- Biochemical oxygen demand in milligrams per liter; B = 5 days
SUS S	- Suspended solids in milligrams per liter; 5 = at 105 degrees C
COD	- Chemical oxygen demand in milligrams per liter
V SUS S	- Volatile suspended solids in milligrams per liter
CYANIDE	- Cyanide in milligrams per liter
PHENOLS	- Phenols in milligrams per liter
TOC	- Total organic carbon in milligrams per liter
DOC	- Dissolved organic carbon in milligrams per liter
IODIDE	- Iodide in milligrams per liter
T ODOR	- Threshold odor number at 60 degrees C
BROMIDE	- Bromide in milligrams per liter
SULFITE	- Sulfite in milligrams per liter
T SULF	- Total sulfides in milligrams per liter
D SULF	- Dissolved sulfides in milligrams per liter
CC EXT	- Carbon chloroform extract
CA EXT	- Carbon alcohol extract

TABLE E-4

NUTRIENT ANALYSES OF GROUND WATER

Lab and Sampler Agency Code

Abbreviations

5050	-	California Department of Water Resources
5701	-	California Water Service Laboratory
TIME	-	Pacific Standard Time on a 24-hour clock
TEMP	-	Water temperature at time of sampling in degrees Fahrenheit (F) or Celsius (C)
F EC	-	Field determination of electrical conductance in microsiemens at 25°C
F PH	-	Field determination of acidity or alkalinity
TURB	-	Jackson Turbidity Units measured with a Hach Nephelometer, (A), if in the field, (F)
F-CO2	-	Field determination of carbon dioxide in milligrams per liter
P ALK	-	Field determination of alkalinity (phenol)
T ALK	-	Field determination of alkalinity (total)

(Nitrogen Series as N)

D NO2+N03	-	Dissolved nitrite and nitrate
D NO2	-	Dissolved nitrite
D NO3	-	Dissolved nitrate
D ORG N	-	Dissolved organic nitrogen
T ORG N	-	Total organic nitrogen
D NH 3	-	Dissolved ammonia
T NH 3	-	Total ammonia
T (NH3+ORG N)	-	Total ammonia plus organic nitrogen

(Phosphorus Series as P)

DIS.A.H.P04	-	Dissolved acid hydrolyzable phosphate
D O-P04	-	Dissolved orthophosphate
T O-P04	-	Total orthophosphate
D TOT P	-	Dissolved total phosphorus
T TOT P	-	Total phosphorus
REM	-	Remarks: code letter Z means that the value of the constituent is greater than the field limit, in which case all 9's will appear.

TABLE E-4
NUTRIENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAB	G.W. O	TEMP DEPTH	F EC F PH	TURB F CNZ	FIELD P ALK T ALK	N NO2 + N NO3	N NO2 N NO3	CONSTITUENTS IN MILLIGRAMS PER LITER						D O-PH4 T O-PH4	D O-PH4 T TOT P	
									O PFC N	P NH3	T NH3	OFC N	A.W.P24				
A-04 A-04.0 A-04.04 11M/08W-05801 M SACRAMENTO HR CACHE CREEK HU UPPER CACHE CREEK HA LAKEPORT HSA																	
10/03/84	5050		16.0C	381											0.01		
1600	5050			7.3				0.01									
12/04/84	5050		15.0C	390											0.00		
1230	5050			7.2				0.00									
02/05/85	5050		15.5C	395											0.01		
1430	5050			7.3				0.01									
04/03/85	5050		15.5C	375											0.00		
1040	5050			7.2				0.00									
06/04/85	5050		16.0C	395											0.00		
1430	5050			7.2				0.03									
08/07/85	5050		16.0C	395											0.01		
1130	5050			7.3				0.00									
11M/08W-05801 M																	
10/03/84	5050		19.5C	341											0.01		
1540	5050			7.4				0.01									
12/04/84	5050		17.0C	340											0.00		
1300	5050			7.3				0.00									
02/05/85	5050		6.0C	357											0.00		
1330	5050			7.2				0.00									
04/03/85	5050		18.5C	355											0.00		
0915	5050			7.4				0.01									
06/04/85	5050		19.5C	345											0.00		
1345	5050			7.2				0.01									
08/07/85	5050		26.0C	340											0.01		
1030	5050			7.2				0.05									
11M/08W-05801 M																	
10/03/84	5050		16.0C	187											0.01		
1450	5050			6.6				0.07									
12/04/84	5050		11.0C	85											0.01		
1340	5050			6.8				0.92									
02/05/85	5050		4.0C	98											0.01		
1400	5050			6.3				0.56									
04/03/85	5050		10.5C	104											0.03		
0900	5050			6.2				0.14									
06/04/85	5050		13.5C	137											0.02		
1400	5050			6.3				0.22									
08/07/85	5050		20.5C	165											0.06		
1110	5050			6.6				0.08									
11M/08W-05801 M																	
10/03/84	5050		14.0C	232											0.00		
1430	5050			6.8				0.01									
12/04/84	5050		5.5C	70											0.01		
1355	5050			6.0				0.01									
02/05/85	5050		4.0C	185											0.01		
1415	5050			6.4				0.03									
04/03/85	5050		9.5C	81											0.02		
0845	5050			6.0				0.01									
06/04/85	5050		12.5C	275											0.02		
1415	5050			6.7				0.02									
11M/08W-06801 M																	
10/03/84	5050		14.0C	297											0.00		
1515	5050			7.2				0.00									
12/04/84	5050		13.5C	280											0.00		
1315	5050			7.3				0.03									
02/05/85	5050		13.5C	295											0.00		
1315	5050			7.2				0.01									
04/03/85	5050		11.5C	277											0.00		
0945	5050			7.5				0.00									
06/04/85	5050		13.5C	321											0.01		
1330	5050			7.0				0.02									
08/07/85	5050		14.5C	325											0.01		
1103	5050			7.0				0.01									
A-07 A-07.8 A-07.81 19M/03W-04J01 M COLUSA RASIN HI GLENN COLUSA HA COLUSA TROUGH HSA																	
07/01/85	5701		20.0C														
1535	5701														0.12		

TABLE E-4 (CONTINUED)
NUTRIENT ANALYSES OF GROUND WATER

DATE TIME	SAMP L&R	G+H O	TEMP DEPTH	F EC F PH	TURB F CO2	FIELD P ALK T ALK	N NO2 + N NO3	O NO2 O NO3	CONSTITUENTS IN MILLIGRAMS PER LITER						D D-PO4 T D-PO4	D TOT P T TOT P
									T ORG N	T NH3	ORG N	A.H.P04	T D-PO4	T TOT P		
A A-07 A-07.0 A-07.01 194/034-09F01 M																
SACRAMENTO RR COLUSA BASIN HU GLENN COLUSA WA COLUSA TROUGH HSA																
CONTINUED																
07/01/85 1045	5701 5701		20.0C				--	--	--	--	--	--	--	--	0.13	--
194/034-09F01 M																
07/01/85 1320	5701 5701		19.0C				--	--	--	--	--	--	--	--	0.11	--
A-07.0 214/01E-09F02 M																
BUTTE BASIN WA																
09/17/85 1503	5050 5050		67.0F	740 7.0		--	--	--	--	--	0.1	--	--	--	--	0.05
22N/01E-35F01 M																
06/12/85 1345	5701 5701		18.0C			--	--	--	--	--	--	--	--	--	0.14	--
22N/01E-36C01 M																
06/12/85 1315	5701 5701		20.0C			--	--	--	--	--	--	--	--	--	0.25	--
A-08 A-08.0 194/04E-07F01 M																
MARTYSVILLE HU LOWER FEATHER RIVER WA																
06/24/85 1124	5701 5701		18.0C			--	--	--	--	--	--	--	--	--	0.08	--
194/04E-20C01 M																
06/24/85 1143	5701 5701		18.0C			--	--	--	--	--	--	--	--	--	0.22	--
A-13 A-13.A 27N/034-03H01 M																
TEHAMA HU LOWER STONY CREEK WA																
06/06/85 1440	5050 5050		74.0F	700 8.0		--	--	--	--	--	0.3	--	--	--	0.06	0.08
A-13.A 22N/01E-04A03 M																
08/12/85 1530	5701 5701		22.0C			--	--	--	--	--	--	--	--	--	0.35	--
22N/01E-10C01 M																
06/17/85 0803	5701 5701		20.0C			--	--	--	--	--	--	--	--	--	0.22	--
22N/01E-15L01 M																
06/17/85 0815	5701 5701		18.0C			--	--	--	--	--	--	--	--	--	0.13	--
22N/01E-16H01 M																
08/12/85 1304	5701 5701		19.0C			--	--	--	--	--	--	--	--	--	0.21	--
22N/01E-21F01 M																
09/17/85 1100	5050 5050		57.0F	380 7.0		--	--	--	--	--	0.0	--	--	--	--	0.03
22N/01E-22H01 M																
08/12/85 1250	5701 5701		18.0C			--	--	--	--	--	--	--	--	--	0.19	--
22N/01E-23C03 M																
06/17/85 0853	5701 5701		22.0C			--	--	--	--	--	--	--	--	--	0.16	--
22N/01E-23L01 M																
06/17/85 1015	5701 5701		19.0C			--	--	--	--	--	--	--	--	--	0.05	--
22N/01E-23P01 M																
06/17/85 0917	5701 5701		19.0C			--	--	--	--	--	--	--	--	--	0.09	--
22N/01E-23Q01 M																
09/17/85 1440	5050 5050		68.0F	320 8.8		--	--	--	--	--	0.0	--	--	--	--	0.05
22N/01E-23P01 M																
08/12/85 1830	5701 5701		18.0C			--	--	--	--	--	--	--	--	--	0.16	--

TABLE E-4 (CONTINUED)
NUTRIENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LBR	G.W. Q	TEMP DEPTH	F EC F PH	TURB F CO2	FIELD P ALK T ALK	D NO2 + NO3	D NO2 NO3	CONSTITUENTS IN P ORG N T ORG N	O NH3 T NH3	"ILLIGRAMS PER LITER T NH3 + ORG N	DIS A.M.P.O4	D P=PO4 T P=PO4	O TOT P T TOT P
A A-13 A-13.8 22N/01E-27M01 M														
SACRAMENTO HA TEHAMA MU RED BLUFF HA														
09/17/85	5050		65.0F	225		--	--	--	--	--	0.1	--	--	--
1130	5050			7.0		--	--	--	--	--	--	--	--	0.02
22N/01E-33M02 M														
09/17/85	5050		60.0F	220		--	--	--	--	--	0.0	--	--	--
1300	5050			7.1		--	--	--	--	--	--	--	--	0.03
27N/03V-03M01 M														
06/06/85	5050		72.0F	240		--	--	--	--	--	0.0	--	0.04	--
1345	5050			7.8		--	--	--	--	--	--	--	--	0.05
27N/03V-03P02 M														
06/05/85	5050		72.0F	380		--	--	--	--	--	0.0	--	0.03	--
1535	5050			7.6		--	--	--	--	--	--	--	--	0.06
27N/03V-03P03 M														
06/05/85	5050		73.0F	285		--	--	--	--	--	0.0	--	0.04	--
1340	5050			8.0		--	--	--	--	--	--	--	--	0.05
27N/03V-03P04 M														
07/01/85	5050		65.0F	303		--	--	--	--	--	0.0	--	0.01	--
1000	5050			7.9		--	--	--	--	--	--	--	--	0.05
27N/03V-09P01 M														
06/04/85	5050		68.0F	280		--	--	--	--	--	0.0	--	0.08	--
1100	5050			7.1		--	--	--	--	--	--	--	--	0.08
27N/03V-10P01 M														
06/04/85	5050		68.0F	340		--	--	--	--	--	0.1	--	0.04	--
1010	5050			7.3		--	--	--	--	--	--	--	--	0.08
27N/03V-10P02 M														
06/06/85	5050		72.0F	280		--	--	--	--	--	0.0	--	0.10	--
1105	5050			7.4		--	--	--	--	--	--	--	--	0.10
27N/03V-10C01 M														
06/06/85	5050			355		--	--	--	--	--	0.0	--	0.07	--
1420	5050			7.3		--	--	--	--	--	--	--	--	0.08
27N/03V-10C01 M														
06/06/85	5050		71.0F	420		--	--	--	--	--	0.0	--	0.10	--
1140	5050			7.8		--	--	--	--	--	--	--	--	0.10
27N/03V-10C02 M														
06/06/85	5050		72.0F	365		--	--	--	--	--	0.0	--	0.11	--
1205	5050			7.3		--	--	--	--	--	--	--	--	0.11
27N/03V-10C03 M														
07/01/85	5050		66.0F	600		--	--	--	--	--	0.1	--	0.05	--
0930	5050			7.0		--	--	--	--	--	--	--	--	0.09
27N/03V-10C01 M														
06/04/85	5050		64.0F	285		--	--	--	--	--	0.1	--	0.08	--
1030	5050			8.0		--	--	--	--	--	--	--	--	0.07
27N/03V-11C01 M														
07/19/85	5050		70.0F	430		--	--	--	--	--	0.0	--	0.04	--
0930	5050			7.2		--	--	--	--	--	--	--	--	0.13
27N/03V-11P01 M														
07/19/85	5050		70.0F	600		--	--	--	--	--	0.1	--	0.05	--
0910	5050			7.2		--	--	--	--	--	--	--	--	0.16
27N/03V-11P03 M														
07/19/85	5050		65.0F	600		--	--	--	--	--	0.0	--	0.00	--
0840	5050			7.1		--	--	--	--	--	0.0	--	--	0.22
27N/03V-14P01 M														
07/19/85	5050		67.0F	670		--	--	--	--	--	0.1	--	0.02	--
0805	5050			7.2		--	--	--	--	--	--	--	--	0.05
27N/03V-14C01 M														
07/19/85	5050		65.0F	540		--	--	--	--	--	0.1	--	0.01	--
0830	5050			7.8		--	--	--	--	--	--	--	--	0.05
27N/03V-14H01 M														
08/28/85	5050		69.0F	440		--	--	--	--	--	0.0	--	0.03	--
	5050			7.3		--	--	--	--	--	--	--	--	0.07
07/19/85	5050		67.0F	500		--	--	--	--	--	0.0	--	0.01	--
0945	5050			7.2		--	--	--	--	--	--	--	--	0.06

NUTRIENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAT	G.M. O	T.F.M.P DEPTH	F.F.C PH	T.U.R.R F.CO2	FIELD		O.MD2 NO3	O.MD2 NO1	CONSTITUENTS IN MILLIGRAMS PER LITER				O.MD4 NO4	O.TOT.P	
						P.A.L.K T.A.L.K	D.MD2 NO3			O.DRG.M T.DRG.M	O.D.MS T.D.MS	T.MS4 D.MS4	D.MD4 NO4			
A A-13 4-13-R 27N/03W-14N02 M																
06/24/85	5050		67.0F	470				--	--	--	--	0.0	--	0.02	--	0.04
07/22/85	5050		65.0F	500				--	--	--	--	0.1	--	0.00	--	0.09
27N/03W-14N01 M																
06/04/85	5050		61.0F	700				--	--	--	--	0.0	--	0.08	--	0.08
27N/03W-15C01 M																
06/04/85	5050		65.0F	575				--	--	--	--	0.0	--	0.03	--	0.03
27N/03W-15C02 M																
06/04/85	5050		74.0F	320				--	--	--	--	0.0	--	0.05	--	0.07
27N/03W-15E01 M																
04/04/84	5050		65.0F	440				--	--	--	--	0.0	--	0.03	--	0.04
27N/03W-15K02 M																
06/06/85	5050		66.0F	710				--	--	--	--	0.0	--	0.04	--	0.04
27N/03W-15K03 M																
06/06/85	5050		72.0F	615				--	--	--	--	0.0	--	0.06	--	0.06
27N/03W-15N02 M																
06/05/85	5050		70.0F	675				--	--	--	--	0.0	--	0.09	--	0.11
27N/03W-15N03 M																
04/06/85	5050		650	7.0				--	--	--	--	0.1	--	0.04	--	0.04
27N/03W-15N01 M																
06/05/85	5050		68.0F	660				--	--	--	--	0.0	--	0.02	--	0.03
27N/03W-15N02 M																
06/06/85	5050		70.0F	645				--	--	--	--	0.0	--	0.04	--	0.04
27N/03W-15P01 M																
06/06/85	5050		71.0F	420				--	--	--	--	0.0	--	0.04	--	0.05
27N/03W-16F01 M																
06/06/85	5050		68.0F	350				--	--	--	--	0.0	--	0.05	--	0.06
27N/03W-16N02 M																
06/28/85	5050		64.0F	295				--	--	--	--	0.0	--	0.05	--	0.06
27N/03W-20A01 M																
06/04/85	5050		44.0F	275				--	--	--	--	0.0	--	0.07	--	0.08
27N/03W-20F01 M																
09/13/85	5050		66.0F	235				--	--	--	--	0.0	--	--	--	0.05
27N/03W-20K01 M																
09/14/85	5050		66.0F	305				--	--	--	--	0.0	--	--	--	0.06
27N/03W-20N04 M																
09/13/85	5050		64.0F	320				--	--	--	--	0.0	--	--	--	0.04
27N/03W-21C01 M																
06/04/85	5050		66.0F	295				--	--	--	--	0.0	--	0.03	--	0.05
27N/03W-22A01 M																
06/25/85	5050		63.0F	645				--	--	--	--	0.0	--	0.03	--	0.04

TABLE E-4 (CONTINUED)
NUTRIENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAP	G.M. O	TEMP DEPTH	F EC F PH	TURB F CO2	FIELD P ALK T ALK	D NO2 + NO3	D NO2 NO3	CONSTITUENTS IN D ORG N T ORG N	WILLIGRAMS PER LITER D NH3 + T NH3 + ORG N A.M.P.O4	D O-P04 T O-P04	D TOT P T TOT P
4 4-13 4-13.8 27N/03W-22802 M												
07/15/85 0950	5050		62.0F 7.1	580			--	--	--	0.1	0.02	-- 0.08
27N/03W-22803 M												
06/21/85 1115	5050		64.0F 7.3	555			--	--	--	0.2	0.05	-- 0.06
27N/03W-22001 M												
06/21/85 1025	5050		64.0F 7.0	515			--	--	--	0.2	0.03	-- 0.04
27N/03W-23001 M												
06/04/85 1300	5050		63.0F 7.0	585			--	--	--	0.1	0.07	-- 0.07
27N/03W-25001 M												
06/21/85 1320	5050		67.0F 7.1	363			--	--	--	0.2	0.03	-- 0.05
27N/03W-27001 M												
06/21/85 1050	5050		61.0F 6.8	600			--	--	--	0.2	0.04	-- 0.04
27N/03W-27001 M												
06/26/85 1920	5050		62.0F 7.1	440			--	--	--	0.0	0.06	-- 0.10
27N/03W-27001 M												
07/15/85 0920	5050		62.0F 7.1	560			--	--	--	0.0	0.02	-- 0.07
27N/03W-28002 M												
06/28/85 5050	5050		64.0F 7.1	340			--	--	--	0.1	0.02	-- 0.04
27N/03W-28003 M												
06/21/85 1300	5050		73.0F 7.1	235			--	--	--	0.1	0.01	-- 0.02

NUTRIENT ANALYSES OF GROUND WATER

DATE TIME	SAMP LAP	G.M. O	TEMP DEPTH	F EC F PH	TURB F CO2	FIELD P ALK T ALK	D NO2 + NO3	D NO2 NO3	CONSTITUENTS IN D ORG N T ORG N	WILLIGRAMS PER LITER D NH3 + T NH3 + ORG N A.M.P.O4	D O-P04 T O-P04	D TOT P T TOT P	REM
6 6-08 6-08.C 6-08.C1 31N/10E-03001 M													
07/31/85 1340	5050		50.0F 7.0	142			0.26	--	--	0.0	--	-- 0.03	
31N/10E-14001 M													
07/31/85 1410	5050		57.0F 7.0	182			0.10	--	--	0.0	--	-- 0.03	
31N/10E-14001 M													
07/31/85 1400	5050		49.5F 7.3	164			0.08	--	--	0.0	--	-- 0.02	
31N/11E-08001 M													
07/31/85 1445	5050		57.5F 6.1	266			0.19	--	--	0.0	--	-- 0.03	
32N/11E-06001 M													
07/31/85 1305	5050		53.5F 6.6	191			0.25	--	--	0.00	0.00	-- 0.04	
33N/11E-10001 M													
07/31/85 1140	5050		64.0F 7.5	171			0.36	--	--	0.0	--	-- 0.01	

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Butte, Colusa, Del Norte, Glenn, Humboldt, Lake, Lassen, Modoc, Plumas, Shasta, Siskiyou, Tehama, and Trinity	Northern District P. O. Box 607 2440 Main Street Red Bluff, CA 96080 (916) 527-6530
Alameda, Alpine, Amador, Calaveras, Contra Costa, El Dorado, Marin, Mendocino, Mono (North), Napa, Nevada, Placer, Sacramento, San Francisco, San Joaquin, San Mateo, Santa Clara, Sierra, Solano, Sonoma, Sutter, Tuolumne, Yolo, and Yuba	Central District 3251 "S" Street Sacramento, CA 95816-7017 (916) 445-6831
Fresno, Kern (valley), Kings, Madera, Mariposa, Merced, Monterey, San Benito, Santa Cruz, Stanislaus, and Tulare	San Joaquin District 3374 East Shields Avenue Fresno, CA 93726-6990 (209) 445-5443
Imperial, Inyo, Kern (desert), Los Angeles, Orange, Riverside, Mono (South), San Bernardino, San Diego, San Luis Obispo, Santa Barbara, and Ventura	Southern District P. O. Box 6598 849 South Broadway, Suite 500 Los Angeles, CA 90055-1598 (213) 620-4107

Inquiries regarding statewide data should be directed to the Division of Planning:

Department of Water Resources
Division of Planning
Statewide Data Coordinator
P. O. Box 942836
Sacramento, CA 94236-0001
(916) 445-7314

State of California—Resources Agency
Department of Water Resources
P.O. Box 942836
Sacramento CA 94236-0001



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